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STATE OF ALASKA
Bill Sheffield, Governor



AGE, SEX, AND SIZE OF CHUM SALMON (Oncorhynchus keta Walbaum)
FROM CATCHES AND ESCAPEMENTS IN SOUTHEASTERN ALASKA, 1983

Compiled by:
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December 1984

ALASKA DEPARTMENT OF FISH AND GAME
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Don W. Collinsworth
Commissioner

ADF&G TECHNICAL DATA REPORTS

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Division of Commercial Fisheries
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ABSTRACT

A 1983 total commercial harvest of 1,141,363 chum salmon (*Oncorhynchus keta*) was reported in Southeastern Alaska, excluding the inside waters of the Yakutat Management Area. Sport and subsistence catches of 3,270 and 2,297 chum salmon were also recorded. The majority of commercially caught chum salmon were harvested by purse seine (53%) and gill net (45%) with smaller catches by hand and power troll gear (2%) and fish traps (< 1%). District 115 recorded the largest commercial catch of chum salmon (340,742) followed by District 101 (180,946), District 104 (170,675), and District 112 (153,211). Chum salmon catches totaling more than 100,000 fish were realized in statistical weeks 17 July - 23 July, 24 July - 30 July, 7 August - 13 August, and 21 August - 27 August. The median week of the purse seine catch was 31 July - 6 August and that of the gillnet catch was 28 August - 3 September. Four-year-old chum salmon predominated in both purse seine and gillnet catches. From 30% to 87% of the purse seine catch by district and from 45% to 79% of the gillnet catch by district was estimated to be 4-year-old fish. Three-year-old and 5-year-old fish also contributed large numbers to the commercial fishery. No significant differences in age composition between northern and southern Southeastern districts or between purse seine and gillnet harvests were noted. Seasonal changes in the age composition was observed in District 112 and 113 purse seine catch and District 115 gillnet catch. Age and sex specific average lengths consistently decreased throughout the migration in District 101 and 102. The average length of male chum salmon was greater than that of female chum salmon from the same age class, district, and gear. The estimated age and sex composition of escapement varied between the 11 surveyed drainages. Farragut River and Beaver Falls Hatchery samples contained a proportionally large number of males and Montana Creek, Herman River, and Klehini River samples were predominately female. Age composition of escapement samples was similar to the age composition of commercial catch. Hidden Falls chum salmon decreased in size in later sampling periods. No consistent pattern in the character of the migratory time densities was observed.

KEY WORDS: Chum salmon, *Oncorhynchus keta*, commercial harvest, biological sampling.

INTRODUCTION

Historically, of the five species of salmon taken commercially in Southeastern Alaska, chum salmon (*Oncorhynchus keta*) are second in numerical importance. Annual Southeastern commercial catches have averaged over 1.4 million chum salmon from 1970 to 1983. Although, beginning in the late 1970's, harvest levels of pink (*O. gorbuscha*), sockeye (*O. nerka*), and coho salmon (*O. kisutch*) have increased substantially, chum salmon commercial catches continued to decrease. In the four decades prior to 1950, chum salmon harvests averaged 4.9 million salmon. The average harvest fell to 2.9 million from 1951 to 1960, to 2.0 million from 1961 to 1970, and to 1.4 million chum salmon (or less than 30% of the 1911 to 1950 average) from 1971 to 1983. Prior to the mid-1950's, Southeastern catches constituted over half of the total Alaskan chum salmon catch. Small harvests from the mid-1950's to present and increased harvests from other areas have reduced the importance of Southeastern chum salmon in relation to other Alaskan regional chum salmon commercial catches. In 1983, Southeastern catches made up 11% of the total Alaskan chum salmon catch.

Chum salmon are commercially harvested in Southeastern Alaska with purse seines, drift gill nets, hand and power troll gear, and floating fish traps. From 1970 to 1983, 65% of the total annual chum salmon commercial catch was harvested by purse seine, 34% by drift gill net, and less than 1% by hand and power troll gear. The floating fish traps, restricted to the Annette Island Fishery Reserve, caught an average of 1,500 chum salmon annually. Subsistence and sport catches of chum salmon in the Southeastern Region have historically been a small percentage of the total chum salmon catch. Reported subsistence catches from 1970 to 1982 averaged 4,451 chum salmon. The estimated 1978 to 1982 chum salmon catch of sport fishermen averaged 2,473.

A total of 517 surveys was conducted in Southeastern Alaska drainages in order to gauge the magnitude of the 1983 chum salmon escapement. These relative escapement indices were based on foot and aerial stream surveys and weir counts. Stream surveys result in an index of relative abundance for the surveyed drainage and have a potential use in interannual or interdrainage comparisons of escapement. Weir counts result in total enumeration and provide migratory timing information on chum salmon which pass the weir.

This report is a synopsis of the 1983 chum salmon season in Southeastern Alaska. Total commercial catch is presented by district, gear, and statistical week. Age and sex of samples of commercial catch are extrapolated to the total commercial catch of chum salmon resulting in estimates of total district commercial catch by age and sex. Escapement indices are tabulated and escapement samples are used to estimate the sex and age composition of chum salmon returns to specified drainages. The migratory timing characteristics of 12 populations of chum salmon passing Southeastern Alaskan weirs is described. Data are presented in summarized form in the body of this report; more detailed tables are given in the appendix.

STUDY AREA

The Southeastern Region (Region I), excluding the Yakutat Management Area, is defined as both Federal and Alaskan waters between Cape Fairweather on the north and Dixon Entrance on the south. The region is divided into five management areas (Ketchikan, Petersburg, Sitka, Juneau, and Haines) and 19 statistical districts composed of inside districts 101 to 116 and outside districts 152, 154, and 157 (Figure 1). Statistical districts are subdivided into geographical units which more accurately reflect discrete assemblages of salmon stocks. Statistical subareas are designated either numerically or alphabetically. This report also includes troll catch data from offshore statistical districts 181 and 189 (offshore waters from Cape Fairweather to Cape Suckling).

The gillnet fishery is restricted to districts 101, 106, 108, 111, and 115. Purse seine fisheries occurred in districts 101 to 107, 109, 110, and 112 to 114. Commercial troll fishing was allowed in all districts. Purse seine catches account for the largest proportion of total Southeastern salmon catches (86% of the total catch in 1983) followed by gill net salmon catches (7% of the 1983 catch) and troll catch (5% of the 1983 catch). Sport fishing occurs primarily near major population centers in the region. Subsistence fishing is generally conducted near the mouths of rivers and streams throughout the region.

METHODS

The 1983 commercial chum salmon catch was sampled in order to adequately and representatively describe the age and sex composition of the harvest by gear type and district. Troll, subsistence, and sport-caught chum salmon were not sampled since they make up only a small percentage of the total chum salmon catch. Escapement samples were obtained at several hatcheries, egg-take sites, weirs, and during foot surveys of several spawning systems. Both catch and escapement samples of chum salmon were sampled for age, sex, and total length (mid-eye to fork of tail, recorded to the nearest millimeter). Scales were taken from the left side of the chum salmon approximately two rows above the lateral line and on the diagonal row downward from the posterior insertion of the dorsal fin. Scales were placed on gum cards and impressions were subsequently made in cellulose acetate cards. Ages are reported in European notation¹. Sex was assigned by external morphological characteristics (appearance of snout and belly).

Whenever sample sizes permitted, the data were stratified over time into sampling periods. Since the age composition of chum salmon populations often changes systematically through the migratory season, with older chum salmon returning early and younger chum salmon being characteristic of the later parts of the run

¹ The first digit in the 2-digit notation is the number of freshwater annuli. The second digit is the number of saltwater annuli. The total age of the fish is the sum of the two digits plus one.

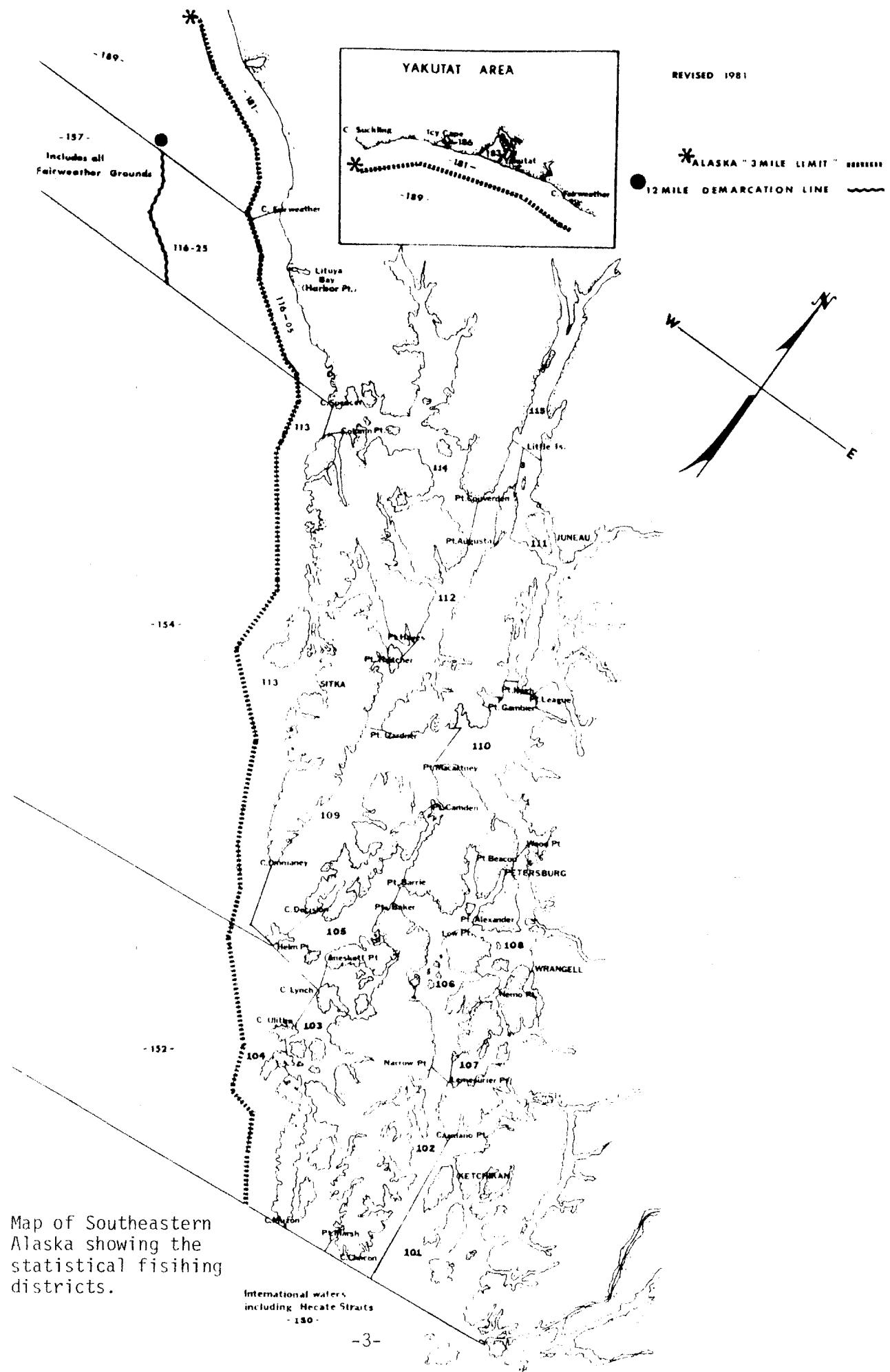


Figure 1. Map of Southeastern Alaska showing the statistical fishing districts.

**International waters
including Hecate Straits**

(Clark and McGregor 1983; Helle 1979), the grouping of samples into a sampling period was a compromise between obtaining the number of samples necessary to obtain a reasonably precise age composition and reducing the bias inherent in grouping the sampling periods. Standard errors of the proportions were calculated by standard binomial formulas. The age distribution and associated standard error of the total commercial catch by district and gear was calculated by weighting the estimated sample age distribution and its standard error each sampling period by the total commercial catch reported during that same sampling period. Mean length of the sampled chum salmon was calculated for each period by district, gear type, age, and sex. If no consistent differences were observed in lengths between periods, an unweighted mean length and standard error is presented. The mean and variance of the migratory time density of chum salmon observed passing through weirs was calculated by standard statistical methods. Data summaries were performed on a Vector Graphics microcomputer.

Alaskan commercial catch data used in this report was compiled by the Division of Commercial Fisheries, Alaska Department of Fish and Game (ADF&G), and was based on individual fish tickets as of 5 April 1984. Because of the volume of tickets and frequency of both data entry and recording errors, later summaries will differ slightly from those used in this report as more errors are detected and corrected. Therefore, allocation of commercial catches by age, sex, sampling period, district, and gear are accurate but not exact. Revised catch statistics can be found in Jones (1984). Sport catch information was obtained from Mills (1984). Subsistence catch information was tabulated from subsistence use permits returned to the ADF&G. All subsistence permits were not returned, however, so that subsistence catch totals listed in this report underestimate the total subsistence harvest from the region.

RESULTS

Weekly commercial purse seine catches are presented in Table 1. Since the purse seine fleet targets primarily on pink salmon, management bases its decisions of which areas and dates to open to purse seine gear on the run strength of various pink salmon stocks. In 1983 portions of Chatham Strait along the Baranof Island shore (District 112) were opened specifically to harvest Hidden Falls Hatchery chum salmon. Purse seine fisheries to specifically harvest fall chum salmon were limited to a 12-hour period in the waters of Excursion Inlet (District 114) and a one-day opening in Cholmondeley Sound (District 102).

A total of 604,538 chum salmon was harvested by purse seine gear in Southeastern Alaska (excluding the Annette Island native purse seine fishery) in 1983. More than one-half of the purse seine harvested chum salmon were caught in Districts 104 and 112 (28.1% and 25.3%, respectively). All other districts accounted for 11% or less of the total harvest. Peak catches of 111,118 and 102,783 chum salmon, or 35% of the total catch, were recorded in weeks 30 July - 24 July and 7 August - 13 August, respectively. The median week of purse seine chum salmon catch was 31 July - 6 August.

The estimated age composition of the Southeastern Alaska, Canadian, and Annette Island commercial catch by gear, district, sampling period, and sex is presented in Appendix Tables 1 - 42. Associated statistics of mean length by gear and

Table 1. Commercial purse seine harvest of chum salmon in Southeastern Alaska by district and week, 3 July to 22 October 1983.

| Week | Districts | | | | | | | | | | | | Total |
|-----------|-----------|--------|--------|---------|--------|-------|-------|--------|--------|---------|--------|---------------------|----------------------|
| | 101 | 102 | 103 | 104 | 105 | 106 | 107 | 109 | 110 | 112 | 113 | 114 | |
| 7/3-7/9 | 0 | 0 | 0 | 21,032 | 0 | 0 | 0 | 0 | 1,372 | 0 | 0 | 0 | 22,404 |
| 7/10-7/16 | 1,801 | 12 | 0 | 11,791 | 0 | 0 | 0 | 0 | 18,947 | 0 | 0 | 0 | 32,551 |
| 7/17-7/23 | 4,479 | 564 | 0 | 8,736 | 0 | 0 | 0 | 0 | 61,151 | 8,746 | 4,662 | 88,338 | |
| 7/24-7/30 | 5,090 | 434 | 0 | 27,411 | 0 | 0 | 0 | 5,068 | 1,130 | 35,048 | 18,347 | 18,590 | 111,118 |
| 7/31-8/6 | 3,022 | 338 | 152 | 35,089 | 0 | 0 | 0 | 0 | 619 | 5,478 | 14,488 | 1,658 | 60,844 |
| 8/7-8/13 | 2,821 | 166 | 4,236 | 34,812 | 2,904 | 753 | 1,655 | 28,994 | 0 | 14,612 | 11,830 | 0 | 102,783 |
| 8/14-8/20 | 5,750 | 4,781 | 10,665 | 16,638 | 3,552 | 765 | 611 | 2,205 | 0 | 15,160 | 6,063 | 0 | 66,190 |
| 8/21-8/27 | 11,298 | 17,155 | 14,018 | 14,275 | 6,452 | 0 | 438 | 3,033 | 0 | 957 | 5,598 | 0 | 73,224 |
| 8/28-9/3 | 6,622 | 10,911 | 3,963 | 0 | 10 | 0 | 399 | 908 | 0 | 85 | 0 | 0 | 22,898 |
| 9/4-9/10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9/11-9/17 | 0 | 13,381 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10,660 | 24,041 |
| Total | 40,883 | 47,742 | 33,034 | 169,784 | 12,918 | 1,518 | 3,103 | 40,208 | 1,749 | 152,810 | 65,072 | 35,717 ¹ | 604,538 ¹ |

¹ Includes 147 chum salmon not assigned to a specific statistical week

statistical area and allocation of total commercial catch to sex and age classes are also presented in the same appendix tables. The age distribution of the commercial purse seine catch is summarized in Table 2. There were no significant trends in sex composition of the purse seine catch and only in Districts 112 and 113 were consistent changes in age composition noted throughout the fishing season. The percentage of 3-year-old chum salmon caught in District 112 increased from 3.2% in the first sampling period to 16.2% in the last sampling period (Appendix Table 19). A similar increase in the percentage of 3-year-old chum salmon (from 6.2% to 22.9%) and a corresponding decrease in the percentage of 5-year-old chum salmon (from 21.7% to 12.8%) was recorded for District 113 purse seine catch (Appendix Table 21). The age composition of purse seine catches from three districts changed significantly but not systematically through the season. Large differences between sampling periods were noted for District 101 (Appendix Table 1) District 103 (Appendix Table 5) and District 109 (Appendix Table 15).

Four-year-old chum salmon were the dominant age group in the purse seine catch (Table 2). From 30.0% to 86.8% of the commercial catch was represented by this age class. In general 3-year-old and 5-year-old chum salmon were harvested in approximately equal numbers in both southern and northern Southeastern Alaska purse seine catches. The percentage of 3-year-old chum salmon in the catch ranged from 3.1% in District 114 to 51.4% in District 106 and the percentage of 5-year-olds ranged from 9.6% in District 114 to 35.8% in District 109. Six-year-old chum salmon were numerically a minor constituent of the commercial purse seine catch from all districts, ranging from 0.0% to 0.9% of the catch.

Average lengths of the purse seine catch of chum salmon in Districts 101 and 102 were found to decrease in size for a specific sex and age class (Table 3). Size difference between sampling periods ranged up to 30 mm for 4-year-old male chum salmon in District 101. No significant differences in age and sex specific lengths were measured between sampling periods in other districts; therefore, average lengths by sampling period for Districts 101 and 102 and lengths averaged over all sampling periods for Districts 103 to 114 are summarized in Table 3. Cursory inspection of average lengths of the purse catch of chum salmon by district, age, and sex disclosed no obvious differences in average length between districts. The average length of male chum salmon was consistently greater than the average female length for the same age and district. The average length of a given age class of chum salmon was greater than the average length of younger chum salmon of the same sex and district. However, the large variability in individual lengths precludes assignment of a given chum salmon of known length and unknown sex and age to an age and sex category.

Gillnet fisheries are generally directed toward sockeye salmon stocks early in the season and chum and coho salmon stocks during the fall season. Chum salmon comprised 19% of the total drift gillnet catch in 1983. Table 4 summarizes the 1983 harvest of chum salmon by district and statistical week for the Alaska drift gillnet fleet and Table 5 presents the Annette Island catches and the Canadian catches by statistical week. The median date of the total Southeastern Alaska chum salmon gillnet catch was the week of 28 August - 3 September, and a peak catch of 68,087 chum salmon occurred during the week of 25 September to 1 October. District 115 gillnetters harvested the largest number of chum salmon (66% of the total Southeastern gillnet catch) followed by District 101 gillnetters (27%). Approximately 45% of the total Southeastern chum salmon catch in 1983 was taken by drift gillnet gear.

Table 2. Summary of age composition of the commercial purse seine catch of chum salmon in Southeastern Alaska by sex and district, 1983. Standard errors are in parentheses. Percentages are weighted by sampling period commercial catches.

| Sex/ Age ¹ | District | | | | | | | | | | | |
|--------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | 101 | 102 | 103 | 104 | 105 | 106 | 107 | 109 | 110 | 112 | 113 | 114 |
| Male | 44.2(1.6) | 44.7(1.7) | 52.1(1.8) | 38.8(2.5) | 42.5(2.3) | 22.9(5.0) | 64.8(3.3) | 57.1(2.1) | 74.0(6.3) | 50.9(1.0) | 46.9(2.3) | 49.3(1.8) |
| 01 | 0.0(0.0) | 0.1(0.1) | 0.0(0.0) | 0.0(0.0) | 0.0(0.0) | 0.0(0.0) | 0.0(0.0) | 0.0(0.0) | 0.0(0.0) | 0.0(0.0) | 0.0(0.0) | 0.0(0.0) |
| 02 | 10.6(1.0) | 11.4(1.3) | 11.3(1.1) | 2.5(0.4) | 5.1(1.0) | 12.9(4.0) | 15.4(2.5) | 11.1(1.4) | 13.0(4.6) | 5.4(0.5) | 7.3(1.4) | 2.0(0.6) |
| 03 | 21.2(1.3) | 19.8(1.1) | 32.5(1.7) | 13.7(1.0) | 33.5(2.2) | 8.6(3.4) | 35.5(3.3) | 27.5(1.9) | 48.1(6.9) | 37.8(1.0) | 32.7(2.1) | 40.9(1.8) |
| 04 | 10.4(1.0) | 12.8(0.2) | 8.0(1.0) | 5.0(0.6) | 3.8(0.9) | 1.4(1.4) | 12.6(2.3) | 18.4(1.7) | 7.4(3.6) | 6.5(0.5) | 6.4(1.0) | 5.3(0.8) |
| 05 | 0.2(0.1) | 0.5(0.1) | 0.0(0.0) | 0.0(0.0) | 0.2(0.2) | 0.0(0.0) | 0.9(0.6) | 0.1(0.1) | 0.0(0.0) | 0.2(0.1) | 0.0(0.0) | 0.5(0.3) |
| Female | 55.8(1.6) | 55.3(1.7) | 47.9(1.8) | 61.2(2.5) | 57.5(2.3) | 77.1(5.0) | 35.2(3.3) | 42.9(2.1) | 26.0(6.3) | 49.1(1.0) | 53.1(2.3) | 50.7(1.8) |
| 01 | 0.0(0.0) | 0.0(0.0) | 0.0(0.0) | 0.0(0.0) | 0.0(0.0) | 0.0(0.0) | 0.0(0.0) | 0.0(0.0) | 0.0(0.0) | 0.0(0.0) | 0.0(0.0) | 0.0(0.0) |
| 02 | 12.0(1.0) | 14.9(1.2) | 9.7(1.1) | 4.4(0.6) | 5.1(1.0) | 38.6(5.9) | 9.8(2.0) | 4.7(0.8) | 0.0(0.0) | 3.7(0.4) | 9.0(1.5) | 1.1(0.4) |
| 03 | 28.5(1.4) | 23.4(1.4) | 28.6(1.6) | 20.1(1.1) | 42.7(2.3) | 21.4(4.9) | 16.4(2.5) | 20.5(1.6) | 13.0(4.6) | 37.4(1.0) | 34.3(2.2) | 44.6(1.8) |
| 04 | 13.0(1.1) | 16.6(1.3) | 9.3(1.0) | 8.0(0.7) | 9.3(1.3) | 17.1(4.5) | 8.9(2.5) | 17.3(1.7) | 11.1(4.3) | 7.1(0.5) | 9.2(1.3) | 4.3(0.7) |
| 05 | 0.0(0.0) | 0.1(0.1) | 0.0(0.0) | 0.0(0.0) | 0.4(0.3) | 0.0(0.0) | 0.0(0.0) | 0.3(0.2) | 0.0(0.0) | 0.0(0.0) | 0.0(0.0) | 0.0(0.0) |
| Both Sexes | | | | | | | | | | | | |
| 01 | 0.0(0.0) | 0.1(0.0) | 0.0(0.0) | 0.0(0.0) | 0.0(0.0) | 0.0(0.0) | 0.0(0.0) | 0.0(0.0) | 0.0(0.0) | 0.0(0.0) | 0.0(0.0) | 0.0(0.0) |
| 02 | 23.0(1.3) | 26.3(1.5) | 21.0(1.5) | 12.7(0.9) | 10.1(1.4) | 51.4(6.0) | 25.7(3.0) | 15.8(1.6) | 13.0(4.6) | 9.2(0.6) | 16.3(1.9) | 3.1(0.7) |
| 03 | 53.1(1.6) | 43.5(1.7) | 61.4(1.7) | 62.2(1.3) | 76.2(2.0) | 30.0(5.5) | 51.9(3.4) | 48.1(2.1) | 68.5(6.4) | 76.8(0.9) | 68.0(2.2) | 86.8(1.3) |
| 04 | 23.7(1.4) | 29.4(1.5) | 17.5(1.3) | 25.0(1.1) | 13.1(1.5) | 18.6(4.7) | 21.5(2.8) | 35.8(2.1) | 18.5(5.3) | 13.8(0.7) | 15.6(1.6) | 9.6(1.1) |
| 05 | 0.2(0.1) | 0.6(0.3) | 0.0(0.0) | 0.1(0.1) | 0.6(0.4) | 0.0(0.0) | 0.9(0.6) | 0.4(0.2) | 0.0(0.0) | 0.2(0.1) | 0.0(0.0) | 0.5(0.3) |

¹ The first digit in the 2-digit notation is the number of freshwater annuli. The second digit is the number of saltwater annuli. The total age of the fish is the sum of the two digits plus one.

Table 3. Summary of average length of the commercial purse seine catch of chum salmon in Southeastern Alaska by sex and district, 1983. Standard errors are in parentheses.

| District/ Period | 01 | Male | | | | | Female | | | |
|---------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--|
| | | 02 | 03 | 04 | 05 | 02 | 03 | 04 | 05 | |
| Dist. 101 | | | | | | | | | | |
| 7/10-8/06 | | 601(8.3) | 672(6.1) | 680(10.5) | | 583(9.9) | 651(4.5) | 661(6.1) | | |
| 8/07-9/03 | | 588(5.4) | 642(4.6) | 659(4.7) | 670(20.0) | 575(4.1) | 634(3.2) | 656(3.5) | | |
| Dist. 102 | | | | | | | | | | |
| 7/17-8/27 | 490(—) | 567(4.2) | 641(4.5) | 656(5.0) | 635(35.4) | 568(4.0) | 627(4.1) | 656(4.5) | | |
| 8/28-9/17 | | 559(5.1) | 619(5.2) | 640(4.4) | 615(—) | 568(5.0) | 625(3.5) | 638(3.6) | 640(—) | |
| Dist. 103 | | | | | | | | | | |
| 7/31-9/03 | | 573(3.2) | 621(2.2) | 643(4.4) | 605(—) | 574(3.5) | 622(2.2) | 647(3.7) | | |
| Dist. 104 | | | | | | | | | | |
| 7/03-8/27 | | 581(6.8) | 651(3.5) | 661(4.7) | 720(—) | 570(4.5) | 637(2.4) | 655(2.9) | 650(—) | |
| Dist. 105 | 8/07-8/27 | 558(7.0) | 627(3.2) | 650(6.4) | 658(—) | 563(13.6) | 617(2.5) | 627(2.5) | 624(24.0) | |
| | | | | | | | | | | |
| Dist. 106 | | | | | | | | | | |
| 7/17-8/27 | | 572(12.5) | 620(14.0) | 648(—) | | 570(13.6) | 554(6.5) | 613(12.9) | 644(7.0) | |
| Dist. 107 | | | | | | | | | | |
| 7/17-8/27 | | 569(7.4) | 635(5.8) | 646(7.5) | 630(0.0) | 572(7.6) | 627(6.8) | 649(10.3) | | |
| Dist. 109 | | | | | | | | | | |
| 7/24-9/03 | | 567(3.8) | 623(2.4) | 649(3.5) | 681(—) | 574(5.2) | 615(2.2) | 637(2.8) | 631(8.6) | |
| Dist. 110 | | | | | | | | | | |
| 7/24-8/06 | | 587(16.2) | 608(7.0) | 621(17.1) | | 623(13.1) | 626(11.2) | | | |
| Dist. 112 | | | | | | | | | | |
| 7/03-9/03 | | 567(4.3) | 635(1.3) | 667(3.4) | 689(24.9) | 566(4.1) | 617(1.1) | 641(2.3) | 707(—) | |
| Dist. 113 | | | | | | | | | | |
| 7/17-8/27 | | 577(8.2) | 652(2.3) | 659(4.7) | | 586(6.1) | 637(2.1) | 650(3.3) | | |
| Dist. 114 | | | | | | | | | | |
| 7/17-9/17 | | 567(9.4) | 640(1.5) | 667(4.7) | 666(12.8) | 557(9.2) | 621(1.4) | 653(4.6) | | |

Table 4. Commercial gillnet harvest of chum salmon in Southeastern Alaska by district and week, 29 May to 15 October 1983.

| Week | Districts | | | | | Total |
|------------|-----------|--------|-----|--------|----------------------|----------------------|
| | 101 | 106 | 108 | 111 | 115 | |
| 6/12-6/18 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6/19-6/25 | 12,624 | 886 | 0 | 23 | 228 | 13,761 |
| 6/26-7/2 | 16,238 | 1,455 | 0 | 189 | 1,250 | 19,132 |
| 7/3-7/9 | 7,165 | 1,115 | 0 | 581 | 2,697 | 11,558 |
| 7/10-7/16 | 11,928 | 834 | 0 | 715 | 3,745 | 17,222 |
| 7/17-7/23 | 17,373 | 3,887 | 0 | 1,221 | 7,146 | 29,627 |
| 7/24-7/30 | 8,769 | 1,796 | 0 | 1,289 | 4,385 | 16,239 |
| 7/31-8/6 | 13,747 | 1,155 | 0 | 1,114 | 3,340 | 19,356 |
| 8/7-8/13 | 7,634 | 1,798 | 0 | 982 | 9,211 | 19,625 |
| 8/14-8/20 | 9,967 | 2,375 | 182 | 961 | 10,962 | 24,447 |
| 8/21-8/27 | 9,397 | 1,375 | 66 | 1,191 | 27,642 | 38,381 |
| 8/28-9/3 | 7,150 | 1,196 | 84 | 3,417 | 44,876 | 56,723 |
| 9/4-9/10 | 9,982 | 737 | 115 | 2,411 | 38,309 | 51,554 |
| 9/11-9/17 | 5,359 | 855 | 157 | 655 | 33,136 | 40,162 |
| 9/18-9/24 | 2,380 | 337 | 41 | 439 | 56,015 | 59,212 |
| 9/25-10/1 | 0 | 343 | 30 | 0 | 67,714 | 68,087 |
| 10/2-10/8 | 0 | 0 | 0 | 0 | 22,986 | 22,986 |
| 10/9-10/15 | 0 | 0 | 0 | 0 | 6,616 | 6,616 |
| Total | 139,713 | 20,144 | 675 | 15,188 | 340,622 ¹ | 516,342 ¹ |

¹Includes 364 chum salmon not assigned to a specific statistical week

Table 5. Canadian commercial gillnet catch in the Stikine and Taku River drainages, and Annette Island commercial gillnet catch of chum salmon by district and week, 29 May to 15 October 1983.

| Week | Annette Island Purse Seine | Annette Island Gillnet | Annette Island Trap Catch | Stikine (Canadian) | Taku (Canadian) |
|------------|-------------------------------|---------------------------|------------------------------|-----------------------|--------------------|
| 6/12-6/18 | 0 | 105 | 0 | 0 | 0 |
| 6/19-6/25 | 0 | 711 | 0 | 0 | 0 |
| 6/26-7/2 | 0 | 1957 | 0 | 0 | 0 |
| 7/3-7/9 | 0 | 1416 | 268 | 1 | 0 |
| 7/10-7/16 | 0 | 874 | 309 | 7 | 0 |
| 7/17-7/23 | 161 | 322 | 112 | 15 | 11 |
| 7/24-7/30 | 325 | 812 | 78 | 38 | 9 |
| 7/31-8/6 | 216 | 1318 | 73 | 63 | 5 |
| 8/7-8/13 | 330 | 628 | 61 | 40 | 4 |
| 8/14-8/20 | 1055 | 1522 | 194 | 25 | 30 |
| 8/21-8/27 | 2010 | 3209 | 398 | 6 | 80 |
| 8/28-9/3 | 920 | 4499 | 283 | 25 | 278 |
| 9/4-9/10 | 0 | 0 | 0 | 35 | 719 |
| 9/11-9/17 | 0 | 18 | 0 | 13 | 452 |
| 9/18-9/24 | 0 | 9 | 0 | 2 | 152 |
| 9/25-10/1 | 0 | 0 | 0 | 4 | 20 |
| 10/2-10/8 | 0 | 0 | 0 | 0 | 0 |
| 10/9-10/15 | 0 | 0 | 0 | 0 | 0 |
| Total | 5017 | 17400 | 1776 | 274 | 1760 |

The chum salmon commercial gill net catch was dominated by 4-year-old fish (Table 6). From 45% to 79% of the catch by district was assigned to the 03 age class. Districts 111 and 115 recorded relatively small percentages of 3-year-old chum salmon (2.5% and 3.1%, respectively) and moderate numbers of 5-year-olds (28.7% and 17.7%, respectively). Districts 101, 106, 108, Annette Island Reserve, and Canadian chum salmon gill net catches were characterized by age compositions similar to purse seine catches (from 1.3 to 38.5% 3-year-olds and 14.3 to 29.4% 5-year-olds). Six-year-old chum salmon comprise 1% or less of the commercial gillnet catch.

A significant change in sizes of chum salmon of a specific age class and sex through time was evident in District 101 (Table 7). The decrease in average length of specific sex-age classes from the first sampling period (12 June - 2 July) to the last sampling period (4 September - 24 September) varied from 43 mm to 118 mm. No systematic changes in length by sex, age, and sampling period were discovered in gillnet catches of other districts. Therefore, average lengths by sampling period for District 101 and lengths averaged over all sampling periods for Districts 106, 108, 111, 115, and the Annette Island and Canadian catches are presented. Average lengths display interdistrict variability similar to that of purse seine catches. As was observed for purse seine catches, males were, on the average, larger than females of the same district and age. The ranges of interdistrict means by age and sex were similar to those observed for purse seine catches (compare Table 3 and Table 7).

Because troll catches of chum salmon constitute a very small percentage of total chum salmon commercial catch, troll catches were not sampled. In 1983, a total of 20,483 chum salmon was caught by hand and power troll gear (Tables 8 and 9) which was 1.8% of the total commercial catch. District 113 recorded the highest number of troll chum salmon (10,678 chum salmon), followed by Districts 114 (3,968 chum salmon) and 116 (2,305 chum salmon).

The total 1983 Southeastern Alaska commercial catch of chum salmon, excluding the Yakutat area, was 1,141,363 fish (Tables 10 and 11). District 115 recorded the largest total catch (340,742 chum salmon or 30% of the total harvest) followed by District 104 (170,675 chum salmon or 15% of the total harvest). The outside Districts 154, 157, 181, and 189 reported the fewest number of chum salmon in the commercial catch. The largest weekly catch occurred the week of 24 July - 30 July when 130,802 chum salmon were taken commercially. The majority of chum salmon were harvested in the interval of 17 July to 27 August when a total of 658,814 or 58% of the chum salmon catch was realized.

In relation to the commercial harvest of chum salmon, subsistence, and sport catches are relatively small. Therefore length, sex, and scale samples were not obtained. An estimated total of 3,270 chum salmon was taken by sport fishermen (catches not recorded by district, but by area; Table 12). The largest sport catch total was reported from the Juneau area. The reported subsistence catch totaled 2,297 chum salmon (Table 13).

Peak escapement counts for streams in the Southeastern Region may be useful for interannual or interdrainage comparisons. Stream counts in which counts of 25 or more chum salmon were observed are presented in Table 14.

Table 6. Summary of age composition of the Southeastern Alaska commercial gillnet catch, Canadian commercial gillnet catch in the Stikine and Taku River drainages, and Annette Island commercial gillnet catch of chum salmon by sex and district, 1983. Standard errors are in parentheses. Percentages are weighted by sampling period commercial catches.

| | | District | | | | | | | | |
|-------------|----|-----------|-----------|-----------|-----------|-----------|---------------------------------|------------------------------|--------------------------|-----------------------|
| Sex/ Age | | 101 | 106 | 108 | 111 | 115 | Annette Island Gillnet Catch | Annette Island Trap Catch | Stikine R. (Canadian) | Taku R. (Canadian) |
| Male | 02 | 38.1(1.0) | 46.2(1.1) | 56.9(4.8) | 51.2(1.4) | 44.1(1.0) | 35.8(3.5) | 54.5(10.9) | 72.2(4.6) | 63.4(3.1) |
| | 03 | 9.5(0.5) | 8.3(0.6) | 22.0(4.0) | 1.9(0.4) | 2.0(0.3) | 1.3(0.5) | 0.0(0.0) | 5.2(2.3) | 0.8(0.6) |
| | 04 | 17.0(0.6) | 22.6(0.9) | 24.8(4.2) | 35.3(1.4) | 34.9(1.0) | 10.8(1.4) | 26.1(6.5) | 56.7(5.1) | 47.5(3.2) |
| | 05 | 3.8(0.3) | 13.3(0.8) | 10.1(2.9) | 13.2(0.9) | 7.1(0.5) | 2.6(0.7) | 0.0(0.0) | 10.3(3.1) | 15.1(2.3) |
| | 06 | 0.1(0.0) | 0.1(0.1) | 0.0(0.0) | 0.8(0.3) | 0.1(0.1) | 0.0(0.0) | 0.0(0.0) | 0.0(0.0) | 0.0(0.0) |
| | 07 | | | | | | | | | |
| Female | 02 | 61.9(1.0) | 53.8(1.1) | 43.1(4.8) | 48.8(1.4) | 55.9(1.0) | 64.2(3.5) | 45.5(10.9) | 27.8(4.6) | 36.6(3.1) |
| | 03 | 12.5(0.5) | 10.8(0.6) | 16.5(3.6) | 0.7(0.2) | 1.1(0.2) | 4.8(1.0) | 4.3(3.0) | 1.0(1.0) | 0.4(0.4) |
| | 04 | 30.5(0.8) | 26.3(0.9) | 20.2(3.9) | 32.1(1.4) | 43.9(1.0) | 16.9(1.7) | 17.4(5.7) | 20.6(4.1) | 23.1(2.7) |
| | 05 | 6.6(0.4) | 15.1(0.8) | 6.4(2.4) | 15.5(1.0) | 10.6(0.6) | 4.8(1.0) | 0.0(0.0) | 6.2(2.5) | 13.0(2.2) |
| | 06 | 0.0(0.0) | 0.4(0.1) | 0.0(0.0) | 0.5(0.2) | 0.1(0.1) | 0.0(0.0) | 0.0(0.0) | 0.0(0.0) | 0.0(0.0) |
| | 07 | | | | | | | | | |
| Both Sexes | | | | | | | | | | |
| 02 | 02 | 24.7(0.7) | 19.6(0.8) | 38.5(4.7) | 2.5(0.4) | 3.1(0.4) | 13.2(1.6) | 6.5(3.7) | 6.2(2.5) | 1.3(0.7) |
| | 03 | 60.7(0.8) | 50.4(1.1) | 45.0(4.8) | 67.5(1.3) | 79.0(0.8) | 66.5(2.2) | 71.7(6.7) | 77.3(4.3) | 70.6(3.0) |
| | 04 | 14.3(0.6) | 29.4(1.0) | 16.5(3.6) | 28.7(1.2) | 17.7(0.8) | 20.3(1.9) | 21.8(6.2) | 16.5(3.8) | 28.2(2.9) |
| | 05 | 0.1(0.1) | 0.5(0.2) | 0.0(0.0) | 1.3(0.3) | 0.2(0.1) | 0.0(0.0) | 0.0(0.0) | 0.0(0.0) | 0.0(0.0) |
| | 06 | | | | | | | | | |

Table 7. Summary of the average length of the Southeastern Alaska commercial gillnet catch, Canadian commercial gillnet catch in the Stikine and Taku River drainages, and Annette Island commercial gillnet catch of chum salmon by district and period, 1983. Standard errors are in parentheses.

| District/ Period | Male | | | | Female | | | |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | 02 | 03 | 04 | 05 | 02 | 03 | 04 | 05 |
| Dist. 101 | | | | | | | | |
| 6/12-7/02 | 633(19.6) | 715(4.4) | 736(7.1) | 775(—) | 619(30.3) | 671(3.8) | 681(7.3) | 660(—) |
| 7/03-7/16 | 629(9.6) | 662(8.3) | 681(36.8) | | 594(6.3) | 642(3.3) | 661(7.5) | |
| 7/17-7/23 | 619(4.4) | 671(3.5) | 672(8.0) | 690(—) | 596(3.8) | 646(2.2) | 653(5.3) | |
| 7/24-7/30 | 624(6.5) | 661(4.5) | 687(13.0) | | 588(4.7) | 643(2.8) | 656(8.2) | |
| 7/31-8/06 | 598(6.4) | 662(6.2) | 678(20.0) | | 584(5.6) | 640(2.8) | 658(4.7) | |
| 8/07-8/13 | 592(6.2) | 648(5.2) | 671(6.6) | | 592(3.8) | 624(3.0) | 642(19.7) | |
| 8/14-8/27 | 585(5.5) | 640(7.5) | 638(15.9) | | 577(3.9) | 622(3.1) | 645(6.4) | |
| 8/28-9/03 | 586(8.5) | 629(6.5) | 637(14.1) | | 572(3.8) | 627(3.6) | 626(6.2) | |
| 9/04-9/24 | 574(3.4) | 618(8.2) | 618(14.9) | | 576(3.9) | 624(5.6) | 636(7.5) | |
| Dist. 106 | | | | | | | | |
| 6/19-9/24 | 586(2.8) | 624(1.7) | 651(2.5) | 621(9.8) | 583(2.2) | 622(1.5) | 641(1.7) | 532(23.0) |
| Dist. 108 | | | | | | | | |
| 8/14-10/01 | 586(5.8) | 650(10.7) | 660(15.1) | | 593(8.9) | 646(8.4) | 654(17.7) | |
| Dist. 111 | | | | | | | | |
| 6/19-9/10 | 578(6.5) | 649(1.8) | 678(2.8) | 684(13.9) | 587(10.0) | 641(1.4) | 656(1.7) | 658(15.9) |
| Dist. 115 | | | | | | | | |
| 6/19-10/15 | 601(3.8) | 659(0.8) | 685(1.4) | 687(15.5) | 596(5.0) | 646(0.7) | 666(1.1) | 650(8.9) |
| Annette Island Gillnet Catch | | | | | | | | |
| 6/12-9/24 | 614(18.6) | 712(7.1) | 692(18.9) | | 607(7.3) | 668(5.8) | 663(6.8) | |
| Annette Island Trap Catch | | | | | | | | |
| 7/03-9/03 | | 701(17.9) | | | 640(35.0) | 682(17.5) | | |
| Stikine River Canadian Gillnet Catch | | | | | | | | |
| 6/13-10/08 | 591(7.3) | 663(6.2) | 690(7.5) | | 600(—) | 639(9.1) | 637(25.9) | |
| Taku River Canadian Gillnet Catch | | | | | | | | |
| 7/03-9/03 | 508(7.5) | 565(2.5) | 586(5.5) | | 492(—) | 544(3.5) | 563(5.1) | |

Table 8. Commercial hand and power troll harvest of chum salmon in southern Southeastern Alaska by district and statistical week, 1983.

| Week | Districts | | | | | | | | | | Total |
|---------------|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| | 101 | 102 | 103 | 104 | 105 | 106 | 107 | 108 | 109 | 110 | |
| Before May 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| 5/15-5/21 | 0 | 0 | 7 | 34 | 0 | 0 | 0 | 0 | 2 | 0 | 43 |
| 5/22-5/28 | 2 | 3 | 4 | 95 | 0 | 0 | 0 | 0 | 0 | 0 | 104 |
| 5/29-6/4 | 0 | 1 | 6 | 35 | 0 | 0 | 0 | 0 | 2 | 0 | 44 |
| 6/5-6/11 | 3 | 6 | 1 | 61 | 1 | 1 | 0 | 0 | 2 | 1 | 76 |
| 6/12-6/18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6/19-6/25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6/26-7/2 | 18 | 0 | 1 | 57 | 0 | 0 | 1 | 0 | 8 | 0 | 85 |
| 7/3-7/9 | 24 | 57 | 7 | 185 | 7 | 1 | 3 | 0 | 48 | 2 | 334 |
| 7/10-7/16 | 19 | 21 | 8 | 71 | 4 | 7 | 25 | 1 | 101 | 4 | 261 |
| 7/17-7/23 | 61 | 26 | 8 | 110 | 6 | 5 | 0 | 0 | 72 | 1 | 289 |
| 7/24-7/30 | 64 | 34 | 9 | 140 | 3 | 8 | 3 | 0 | 163 | 10 | 434 |
| 7/31-8/6 | 50 | 22 | 15 | 78 | 22 | 6 | 0 | 0 | 158 | 8 | 359 |
| 8/7-8/13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8/14-8/20 | 4 | 8 | 6 | 15 | 11 | 1 | 0 | 0 | 191 | 2 | 238 |
| 8/21-8/27 | 14 | 2 | 3 | 10 | 2 | 3 | 0 | 1 | 116 | 0 | 151 |
| 8/28-9/3 | 10 | 3 | 2 | 0 | 0 | 2 | 0 | 0 | 70 | 2 | 89 |
| 9/4-9/10 | 44 | 5 | 0 | 0 | 1 | 1 | 0 | 0 | 14 | 1 | 66 |
| 9/11-9/17 | 16 | 3 | 0 | 0 | 0 | 1 | 0 | 0 | 17 | 0 | 37 |
| 9/18-9/20 | 21 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 23 |
| Total | 350 | 193 | 77 | 891 | 57 | 36 | 32 | 2 | 965 | 31 | 2634 |

Table 9. Commercial hand and power troll harvest of chum salmon in northern Southeastern Alaska by district and statistical week, 1983.

| Week | Districts | | | | | | | | | Total |
|---------------|-----------|-------|------|-----|------|-----|-----|-----|-----|-------|
| | 112 | 113 | 114 | 115 | 116 | 154 | 157 | 181 | 189 | |
| Unspecified | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Before May 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5/15-5/21 | 0 | 4 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 19 |
| 5/22-5/28 | 0 | 4 | 3 | 0 | 2 | 0 | 0 | 0 | 0 | 9 |
| 5/29-6/4 | 0 | 11 | 10 | 0 | 7 | 0 | 1 | 0 | 0 | 29 |
| 6/5-6/11 | 1 | 209 | 10 | 0 | 33 | 10 | 17 | 1 | 1 | 282 |
| 6/12-6/18 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 4 |
| 6/19-6/25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6/26-7/2 | 7 | 81 | 214 | 0 | 0 | 0 | 0 | 0 | 0 | 302 |
| 7/3-7/9 | 28 | 1278 | 784 | 0 | 121 | 36 | 12 | 0 | 0 | 2259 |
| 7/10-7/16 | 44 | 1193 | 334 | 0 | 100 | 10 | 5 | 0 | 37 | 1723 |
| 7/17-7/23 | 85 | 2141 | 542 | 0 | 126 | 44 | 48 | 0 | 42 | 3028 |
| 7/24-7/30 | 75 | 2304 | 435 | 1 | 196 | 0 | 0 | 0 | 0 | 3011 |
| 7/31-8/6 | 19 | 2544 | 250 | 0 | 233 | 0 | 101 | 1 | 0 | 3148 |
| 8/7-8/13 | 0 | 138 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 143 |
| 8/14-8/20 | 47 | 244 | 340 | 1 | 264 | 0 | 0 | 0 | 0 | 896 |
| 8/21-8/27 | 45 | 403 | 341 | 0 | 781 | 0 | 0 | 6 | 0 | 1576 |
| 8/28-9/3 | 34 | 66 | 233 | 4 | 157 | 0 | 0 | 0 | 0 | 494 |
| 9/4-9/10 | 9 | 29 | 299 | 4 | 68 | 0 | 0 | 0 | 0 | 409 |
| 9/11-9/17 | 7 | 21 | 149 | 15 | 135 | 0 | 0 | 0 | 0 | 327 |
| 9/18-9/20 | 0 | 8 | 24 | 95 | 63 | 0 | 0 | 0 | 0 | 190 |
| Total | 401 | 10678 | 3968 | 120 | 2305 | 100 | 184 | 8 | 85 | 17849 |

Table 10. Total commercial catch of chum salmon in southern Southeastern Alaska by district and statistical week, 1983.

| Week | Districts | | | | | | | | | | Total |
|---------------|-----------|-------|-------|--------|-------|-------|------|-----|-------|------|--------|
| | 101 | 102 | 103 | 104 | 105 | 106 | 107 | 108 | 109 | 110 | |
| Before May 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| 5/15-5/21 | 0 | 0 | 7 | 34 | 0 | 0 | 0 | 0 | 2 | 0 | 43 |
| 5/22-5/28 | 2 | 3 | 4 | 95 | 0 | 0 | 0 | 0 | 0 | 0 | 104 |
| 5/29-6/4 | 0 | 1 | 6 | 35 | 0 | 0 | 0 | 0 | 2 | 0 | 44 |
| 6/5-6/11 | 3 | 6 | 1 | 61 | 1 | 1 | 0 | 0 | 2 | 1 | 76 |
| 6/12-6/18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6/19-6/25 | 12624 | 0 | 0 | 0 | 886 | 0 | 0 | 0 | 0 | 0 | 13510 |
| 6/26-7/2 | 16256 | 0 | 1 | 57 | 0 | 1455 | 1 | 0 | 8 | 0 | 17778 |
| 7/3-7/9 | 7189 | 57 | 7 | 21217 | 7 | 1116 | 3 | 0 | 48 | 2 | 29646 |
| 7/10-7/16 | 13748 | 33 | 8 | 11862 | 4 | 841 | 25 | 1 | 101 | 4 | 26627 |
| 7/17-7/23 | 21913 | 590 | 8 | 8846 | 6 | 3892 | 0 | 0 | 72 | 1 | 35328 |
| 7/24-7/30 | 13923 | 468 | 9 | 27551 | 3 | 1804 | 3 | 0 | 5231 | 1140 | 50132 |
| 7/31-8/6 | 16819 | 360 | 167 | 35167 | 22 | 1161 | 0 | 0 | 178 | 627 | 54501 |
| 8/7-8/13 | 10455 | 166 | 4236 | 34812 | 2904 | 2551 | 1655 | 0 | 28974 | 0 | 85753 |
| 8/14-8/20 | 15721 | 4789 | 10671 | 16653 | 3563 | 3141 | 611 | 182 | 2396 | 2 | 57729 |
| 8/21-8/27 | 20709 | 17157 | 14021 | 14285 | 6454 | 1378 | 438 | 67 | 3149 | 0 | 77658 |
| 8/28-9/3 | 13782 | 10914 | 3965 | 0 | 10 | 1198 | 399 | 84 | 978 | 2 | 31332 |
| 9/4-9/10 | 10026 | 5 | 0 | 0 | 1 | 738 | 0 | 115 | 14 | 1 | 10900 |
| 9/11-9/17 | 5375 | 13384 | 0 | 0 | 0 | 856 | 0 | 157 | 17 | 0 | 19789 |
| 9/18-9/24 | 2401 | 2 | 0 | 0 | 0 | 337 | 0 | 41 | 0 | 0 | 2781 |
| 9/25-10/01 | 0 | 0 | 0 | 0 | 0 | 343 | 0 | 30 | 0 | 0 | 373 |
| Total | 180946 | 47935 | 33111 | 170675 | 12975 | 21698 | 3135 | 677 | 41173 | 1780 | 514105 |

Table 11. Total commercial catch of chum salmon in northern Southeastern Alaska by district and statistical week, 1983.

| Week | Districts | | | | | | | | | | Region Total | |
|---------------|-----------|--------|-------|--------------------|---------------------|------|-----|-----|-----|-----|-----------------------|------------------------|
| | 111 | 112 | 113 | 114 | 115 | 116 | 154 | 157 | 181 | 189 | | |
| Before May 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 5/15-5/21 | 0 | 0 | 4 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 19 | 62 |
| 5/22-5/28 | 0 | 0 | 4 | 3 | 0 | 2 | 0 | 0 | 0 | 0 | 9 | 113 |
| 5/29-6/4 | 0 | 0 | 11 | 10 | 0 | 7 | 0 | 1 | 0 | 0 | 29 | 73 |
| 6/5-6/11 | 0 | 1 | 209 | 10 | 0 | 33 | 10 | 17 | 1 | 1 | 282 | 358 |
| 6/12-6/18 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 4 | 4 |
| 6/19-6/25 | 23 | 0 | 0 | 0 | 228 | 0 | 0 | 0 | 0 | 0 | 251 | 13761 |
| 6/26-7/2 | 189 | 7 | 81 | 214 | 1250 | 0 | 0 | 0 | 0 | 0 | 1741 | 19519 |
| 7/3-7/9 | 581 | 1400 | 1278 | 784 | 2697 | 121 | 36 | 12 | 0 | 0 | 6909 | 36555 |
| 7/10-7/16 | 715 | 18991 | 1193 | 334 | 3745 | 100 | 10 | 5 | 0 | 37 | 25130 | 51757 |
| 7/17-7/23 | 1221 | 61236 | 10887 | 5204 | 7146 | 126 | 44 | 48 | 0 | 42 | 85954 | 121282 |
| 7/24-7/30 | 1289 | 35123 | 20651 | 19025 | 4386 | 196 | 0 | 0 | 0 | 0 | 80670 | 130802 |
| 7/31-8/6 | 1114 | 5497 | 17032 | 1908 | 3340 | 233 | 0 | 101 | 1 | 0 | 29226 | 83727 |
| 8/7-8/13 | 982 | 14612 | 11968 | 0 | 9211 | 0 | 0 | 0 | 0 | 5 | 36778 | 122531 |
| 8/14-8/20 | 961 | 15207 | 6307 | 340 | 10963 | 264 | 0 | 0 | 0 | 0 | 34042 | 91771 |
| 8/21-8/27 | 1191 | 1002 | 6001 | 341 | 27642 | 781 | 0 | 0 | 6 | 0 | 36964 | 114622 |
| 8/28-9/3 | 3417 | 119 | 66 | 233 | 44880 | 157 | 0 | 0 | 0 | 0 | 48882 | 80204 |
| 9/4-9/10 | 2411 | 9 | 29 | 446 | 38313 | 68 | 0 | 0 | 0 | 0 | 41276 | 52176 |
| 9/11-9/17 | 655 | 7 | 21 | 10809 | 33151 | 135 | 0 | 0 | 0 | 0 | 44778 | 64567 |
| 9/18-9/24 | 439 | 0 | 8 | 24 | 56110 | 63 | 0 | 0 | 0 | 0 | 56644 | 59425 |
| 9/25-10/1 | 0 | 0 | 0 | 0 | 67714 | 0 | 0 | 0 | 0 | 0 | 67714 | 68087 |
| 10/02-10/08 | 0 | 0 | 0 | 0 | 22986 | 0 | 0 | 0 | 0 | 0 | 22986 | 22986 |
| 10/09-10/15 | 0 | 0 | 0 | 0 | 6616 | 0 | 0 | 0 | 0 | 0 | 6616 | 6616 |
| Total | 15188 | 153211 | 75750 | 39685 ¹ | 340742 ² | 2305 | 100 | 184 | 8 | 85 | 627258 ^{1,2} | 1141363 ^{1,2} |

¹ Includes 147 chum salmon not assigned to a specific statistical week

² Includes 364 chum salmon not assigned to a specific statistical week

Table 12. Southeastern Alaska sport catch, 1983.

| Area | Saltwater | Freshwater | Total |
|----------------------------------|-------------|------------|-------------|
| Ketchikan Area | | | |
| Behm Canal | 191 | 0 | 191 |
| Clarence Strait | 30 | 0 | 30 |
| Revilla Channel | 31 | 0 | 31 |
| Tongass Narrows | 229 | 0 | 229 |
| Other Areas | 168 | 0 | 168 |
| Ketchikan Area Total | 649 | 0 | 649 |
| Prince of Wales | | | |
| Island Area | | | |
| Klawock River | 0 | 23 | 23 |
| Other Streams | 0 | 336 | 336 |
| Shoreline | 138 | 0 | 138 |
| Offshore | 153 | 0 | 153 |
| Prince of Wales Total | 291 | 359 | 650 |
| Petersburg- | | | |
| Wrangell Area Total | | | |
| | 8 | 15 | 23 |
| Sitka Area Total | 274 | 38 | 312 |
| Juneau Area | 1259 | 52 | 1311 |
| Haines-Skagway Area | 42 | 283 | 325 |
| Southeastern Alaska Total | 2523 | 747 | 3270 |

Source: Mills, M. J. 1983. Alaska Statewide Sport Fish Harvest Studies. Alaska Department of Fish and Game. Federal Aid and Fish Restoration. Annual Report of Progress, 1983 - 1984.

Table 13. Southeastern Alaska reported chum salmon subsistence catch, 1983.

| Area | Stream Number | Number Harvested |
|---------------------------|------------------|------------------|
| Vallenar Creek | 101-29- | 1 |
| Maybeso Creek | 101-60- | 11 |
| Hetta/Eek | 103-25- | 25 |
| Warm Chuck | 103-80- | 38 |
| District 106 Test Fishery | 106-30- and -41- | 6 |
| Security Bay | 109-45- | 1036 |
| District 112 | 112- | 90 |
| Nakwasina Sound | 113-43- | 345 |
| Katlian Bay | 113-44- | 40 |
| Deep Bay | 113-64- | 100 |
| District 114 | 114- | 29 |
| Haines Area | 115- | 419 |
| Klukwan Area | 115- | 135 |
| Saltwater Drift Nets | 115- | 22 |
| Total | | 2297 |

Table 14. Peak escapement by individual stream for Southeastern Alaska chum salmon systems, 1982. Survey code is: (F) foot, (H) helicopter, (A) aerial, (B) boat, (W) weir. L designates entire length of stream surveyed, M a survey at the mouth of a stream, T a tidal survey, and numeric values are distances in miles.

| Stream Number | Stream Name | Count | Method | Distance | Date |
|---------------|-----------------------|-------|--------|----------|-------|
| 101-11-033 | Nakat Inlet Head | 6500 | W | L | 8/31 |
| 101-11-101 | Hidden Inlet | 3600 | A | L | 7/19 |
| 101-15-019 | Tambstone River | 18500 | A | L | 7/19 |
| 101-15-085 | Fish Creek-Hyder | 4525 | F | L | 9/29 |
| 101-30-030 | Keta River | 803 | A | 4 0 | 7/06 |
| 101-30-060 | Marten River | 500 | A | L | 7/11 |
| 101-41-067 | Nadzaheen Creek | 1226 | F | 0 3 | 9/28 |
| 101-45-078 | Carroll Creek | 3506 | A | L | 7/25 |
| 101-47-050 | Lewis Reef | 206 | F | 1 0 | 8/28 |
| 101-55-020 | Wilson River | 300 | A | L | 7/15 |
| 101-55-040 | Blossom River | 100 | A | 4 0 | 7/06 |
| 101-60-030 | Biq Goat Creek | 212 | F | 1 5 | 9/03 |
| 101-71-014 | King Creek | 207 | F | L | 8/22 |
| 101-71-050 | Grace Creek | 36 | F | 1 5 | 9/03 |
| 101-75-015 | Eulachon River | 1203 | A | L | 7/21 |
| 101-75-300 | Cripple Creek-Unuk R. | 90 | F | 2.0 | 8/05 |
| 101-90-007 | Neets Bay NW | 2300 | F | T | 10/01 |
| 101-90-009 | Neets Bay NE | 1200 | F | L | 10/01 |
| 101-90-011 | Neets Bay SE | 1180 | F | L | 10/01 |
| 101-90-012 | Neets Bay SW | 650 | F | L | 10/01 |
| 101-90-029 | Traitors Cove Creek | 1166 | F | 2 0 | 8/23 |
| 101-90-050 | Naha River | 219 | W | L | 8/23 |
| | | | | | |
| 102-30-028 | Perkins Creek | 54 | F | L | 10/07 |
| 102-30-061 | Dickman Bay Head | 29 | F | 0.3 | 10/07 |
| 102-30-065 | Kugel Creek | 1361 | F | 0 5 | 10/07 |
| 102-30-087 | Aiken Cove | 769 | F | 0 5 | 10/07 |
| 102-40-013 | Kitkun Bay NE | 750 | F | L | 10/06 |
| 102-40-017 | Kitkun Bay | 1592 | F | 0 3 | 10/06 |
| 102-40-043 | Disappearance Creek | 19626 | W | L | 10/26 |
| 102-40-060 | Lagoon Creek | 11100 | F | L | 9/29 |
| 102-60-038 | Dog Salmon Creek | 700 | F | 0 7 | 9/15 |
| 102-60-087 | Karta River | 6769 | W | L | 9/11 |

-Continued-

Table 14. Peak escapement by individual stream for Southeastern Alaska chum salmon systems, 1982. Survey code is: (F) foot, (H) helicopter, (A) aerial, (B) boat, (W) weir. L designates entire length of stream surveyed, M a survey at the mouth of a stream, T a tidal survey, and numeric values are distances in miles (continued).

| Stream Number | Stream Name | Count | Method | Distance | Date |
|---------------|------------------------|-------|--------|----------|-------|
| 103-11-017 | Hunter Bay E Head | 58 | F | 5 0 | 9/13 |
| 103-30-040 | Grace Harbor Creek | 107 | F | L | 9/20 |
| 103-30-043 | Vesta Bay | 67 | F | L | 9/30 |
| 103-40-048 | Dunbar Inlet N. Shore | 337 | F | 1 5 | 9/21 |
| 103-40-050 | Dunbar Inlet Left HD | 105 | F | 0 7 | 9/21 |
| 103-40-066 | South Coco Harbor | 287 | F | 0 3 | 9/21 |
| 103-40-067 | Coco Harbor Head | 677 | F | L | 9/21 |
| 103-50-044 | Port Refugio W arm R | 137 | F | 0 7 | 9/22 |
| 103-50-049 | Port Refugio W arm H | 189 | F | 0 7 | 9/22 |
| 103-50-058 | Port Delores | 77 | F | L | 9/22 |
| 103-50-075 | Real Marina S side R | 1251 | F | 1 3 | 9/22 |
| 103-50-076 | Real Marina #1 | 211 | F | L | 9/22 |
| 103-50-077 | Real Marina S side M | 91 | F | L | 9/22 |
| 103-50-079 | Real Marina S side L | 397 | F | L | 9/23 |
| 103-50-083 | Real Marina N side M | 87 | F | 0 3 | 9/23 |
| 103-50-085 | Real Marina N side R | 62 | F | L | 9/23 |
| 103-50-096 | S of Santa Geruidis | 450 | A | T | 9/03 |
| 103-60-013 | Shinaku Creek | 167 | F | 3 0 | 9/16 |
| 103-60-047 | Klawock River | 1085 | W | L | 11/28 |
| 103-70-035 | House Creek Lulu Isl | 750 | A | T | 9/03 |
| 103-90-042 | Shaheen Creek | 42 | F | L | 9/14 |
| 104-30-033 | Bobs Bay N | 191 | F | 0.1 | 8/30 |
| 104-30-036 | Bobs Bay SE | 55 | F | 0 5 | 8/29 |
| 104-30-037 | Bobs Bay SW | 288 | F | 0 2 | 8/29 |
| 104-30-040 | Diver Bay | 60 | F | 0 2 | 8/29 |
| 104-30-045 | Hole in the Wall Creek | 245 | F | 0.1 | 8/29 |

-Continued-

Table 14. Peak escapement by individual stream for Southeastern Alaska chum salmon systems, 1982. Survey code is: (F) foot, (H) helicopter, (A) aerial, (B) boat, (W) weir. L designates entire length of stream surveyed, M a survey at the mouth of a stream, T a tidal survey, and numeric values are distances in miles (continued).

| Stream Number | Stream Name | Count | Method | Distance | Date |
|---------------|--------------------------|-------|--------|----------|-------|
| 105-10-019 | Kathleen Creek | 250 | A | M | 8/20 |
| 105-10-024 | Bear Harbor Creek | 572 | F | L | 9/12 |
| 105-10-026 | Salt Chuck Affleck | 771 | F | 0 1 | 9/12 |
| 105-10-032 | Kell Bay Creek | 885 | F | L | 9/12 |
| 105-20-004 | Paul Creek N Arm H | 29 | F | L | 9/11 |
| 105-20-008 | Cannery Creek | 794 | F | 0 2 | 9/10 |
| 105-20-010 | Gail Creek S Arm SE HD | 246 | F | L | 9/11 |
| 105-20-012 | P Beauclerc S Arm E | 1035 | F | L | 9/10 |
| 105-42-005 | Calder Creek | 499 | F | L | 9/08 |
| 105-42-009 | El Capitan Creek | 250 | A | 0 1 | 8/05 |
| 105-43-006 | Shipley Bay S Side | 48 | F | 1 4 | 9/10 |
| 106-21-004 | Falls Creek. McHenry In. | 150 | A | T | 8/08 |
| 106-21-005 | Trout Creek. McHenry Tn. | 532 | F | L | 8/30 |
| 106-22-008 | Mosman Cr. E Head | 38 | F | L | 8/30 |
| 106-22-010 | Mosman In SE Head | 28 | F | L | 8/31 |
| 106-22-015 | Burnett Hatchery Cr. | 757 | W | L | 12/31 |
| 106-22-016 | Navy Creek | 72 | F | L | 8/31 |
| 106-22-14B | Burnett Inlet SE HD | 32 | F | L | 8/16 |
| 106-22-14D | Burnett BTN | 1052 | F | L | 8/31 |
| 106-30-010 | Porcupine Creek | 40 | F | 1 2 | 9/21 |
| 106-41-034 | Bia Creek Red Bay | 100 | F | T | 9/15 |
| 106-44-031 | Crystal Creek | 201 | W | L | 11/15 |
| 107-10-072 | S. Etolin Island | 581 | F | 0 5 | 8/17 |
| 107-40-038 | Marten Creek | 34 | F | L | 8/18 |
| 107-40-049 | Harding River | 14100 | A | L | 8/02 |
| 108-40-010 | North Arm Creek | 812 | F | 1 0 | 8/02 |
| 108-40-020 | Andrews Creek | 177 | W | L | 8/31 |

-Continued-

Table 14. Peak escapement by individual stream for Southeastern Alaska chum salmon systems, 1982. Survey code is: (F) foot, (H) helicopter, (A) aerial, (B) boat, (W) weir. L designates entire length of stream surveyed, M a survey at the mouth of a stream, T a tidal survey, and numeric values are distances in miles (continued).

| Stream Number | Stream Name | Count | Method | Distance | Date |
|---------------|------------------------|-------|--------|----------|-------|
| 109-10-006 | Sashin Ck. P Walter N | 63 | W | L | 10/05 |
| 109-30-003 | Eliza Creek | 92 | F | L | 9/14 |
| 109-30-018 | Surprise Harbor E | 150 | A | M | 7/28 |
| 109-30-025 | Little Pybus Bay Creek | 1103 | A | L | 9/09 |
| 109-43-006 | Port Camden S Head | 771 | A | L | 9/08 |
| 109-43-008 | Port Camden W Head | 680 | A | L | 9/28 |
| 109-44-039 | Saginaw Creek | 150 | A | M | 8/09 |
| 109-45-013 | Salt Chuck - Security | 4830 | A | L | 9/28 |
| 109-45-017 | Lookout Pt. Creek | 40 | A | T | 9/13 |
| 109-52-035 | Kutlaku Creek | 100 | F | 0 5 | 9/08 |
| 109-62-012 | Elena Bay Head | 398 | F | L | 9/14 |
| 109-62-013 | Alecks Creek | 7800 | A | L | 8/09 |
| 109-62-014 | Sample Creek | 200 | A | M | 7/31 |
| 109-62-026 | Petrof Bay SW Head | 95 | F | L | 9/13 |
| 109-62-028 | William Creek Thetis E | 169 | F | L | 9/13 |
| 109-62-029 | Wolf Creek Thetis Bay | 25 | F | L | 9/13 |
| 109-63-005 | Joyce Creek | 155 | F | L | 9/13 |
| | | | | | |
| 110-13-004 | Dry Bay Creek | 180 | F | L | 8/08 |
| 110-14-007 | Farragut River | 115 | F | 7 0 | 8/14 |
| 110-14-008 | Dale Creek | 1900 | A | M | 7/24 |
| 110-22-004 | Amber Creek | 50 | A | 2 0 | 8/11 |
| 110-22-012 | Donkey Creek | 1300 | A | L | 8/11 |
| 110-22-014 | Cannery Cove | 153 | A | 0 1 | 8/03 |
| 110-23-008 | Johnston Creek | 600 | A | 8 0 | 7/28 |
| 110-23-010 | Bowman Creek | 133 | F | 1 2 | 8/11 |
| 110-23-019 | Snug Cove. Gambier Bay | 50 | F | 1 5 | 8/11 |
| 110-31-004 | Roberts Island Creek | 50 | F | L | 8/09 |
| 110-32-007 | Tunnel Creek | 44 | F | L | 8/10 |
| 110-32-009 | Chuck River | 25 | A | M | 7/18 |
| 110-32-014 | Surprise Creek | 40 | F | L | 8/10 |
| 110-33-013 | Lauras Creek | 206 | A | 0 5 | 7/21 |
| 110-34-006 | Glen Creek | 148 | F | L | 8/09 |
| 110-34-008 | Sanborn Creek | 511 | F | L | 8/09 |
| 110-34-014 | Negro Creek | 98 | F | L | 8/09 |

-Continued-

Table 14. Peak escapement by individual stream for Southeastern Alaska chum salmon systems, 1982. Survey code is: (F) foot, (H) helicopter, (A) aerial, (B) boat, (W) weir. L designates entire length of stream surveyed, M a survey at the mouth of a stream, T a tidal survey, and numeric values are distances in miles (continued).

| Stream Number | Stream Name | Count | Method | Distance | Date |
|---------------|------------------------|-------|--------|----------|-------|
| 111-13-010 | Mole River | 150 | A | 3 0 | 7/28 |
| 111-15-022 | Windfall Harbor S Head | 100 | A | L | 7/24 |
| 111-15-024 | Windfall Harbor w Side | 44 | F | 0 5 | 8/18 |
| 111-15-030 | Pack Creek | 100 | A | L | 7/24 |
| 111-16-040 | Swan Cove Creek | 100 | A | T | 7/07 |
| 111-17-010 | King Salmon River | 2500 | W | L | 7/27 |
| 111-32-056 | Fish Creek. Taku River | 60 | H | L | 10/14 |
| 111-32-220 | Nakina River | 3370 | H | L | 10/14 |
| 111-33-010 | Prospect Creek | 75 | A | 1 0 | 7/27 |
| 111-35-020 | Sweetheart Creek | 50 | A | L | 7/27 |
| 111-40-007 | Switzer Creek | 308 | F | L | 10/06 |
| 111-40-015 | Salmon Creek | 297 | W | L | 8/26 |
| 111-40-065 | Middle Point Creek | 36 | F | 0 5 | 8/17 |
| 111-40-070 | Hilda Creek | 205 | F | 1.0 | 8/17 |
| 111-41-005 | Admiralty Creek | 520 | A | L | 8/05 |
| 111-41-030 | Fowler Creek | 50 | A | L | 7/24 |
| 111-50-042 | Auke Creek | 310 | W | L | 11/08 |
| 111-50-052 | Montana Creek | 2768 | W | L | 8/21 |
| 111-50-069 | Fish Creek | 1466 | F | 2 0 | 8/08 |
| 111-90-005 | Limestone Inlet | 299 | F | 2.0 | 8/09 |
| | | | | | |
| 112-12-005 | White Rock Creek | 30 | A | L | 7/11 |
| 112-15-042 | Lynn Sisters Creek | 100 | A | L | 8/04 |
| 112-15-054 | Opp Point Retreat | 900 | A | L | 7/20 |
| 112-15-062 | Robinson Creek | 3200 | A | L | 8/04 |
| 112-19-010 | Wilson River | 45 | F | 1.5 | 8/31 |
| 112-21-005 | Clear River | 8000 | A | L | 8/08 |
| 112-21-006 | Ralphs Creek | 6000 | A | 0 5 | 7/20 |
| 112-42-008 | Indian River | 91 | F | 0 5 | 8/08 |
| 112-42-016 | Corner Bay | 100 | F | M | 7/11 |
| 112-42-025 | Kadashan Creek | 36259 | W | L | 8/13 |
| 112-43-002 | Crab Bay South Side | 242 | F | L | 8/11 |
| 112-43-012 | Crab Bay Head | 75 | F | L | 8/13 |
| 112-44-010 | Saltery Bay Head | 12300 | A | 3 0 | 8/04 |

-Continued-

Table 14. Peak escapement by individual stream for Southeastern Alaska chum salmon systems, 1982. Survey code is: (F) foot, (H) helicopter, (A) aerial, (B) boat, (W) weir. L designates entire length of stream surveyed, M a survey at the mouth of a stream, T a tidal survey, and numeric values are distances in miles (continued).

| Stream Number | Stream Name | Count | Method | Distance | Date |
|---------------|----------------------|-------|--------|----------|-------|
| 112-45-032 | Eaton Creek | 110 | F | L | 8/13 |
| 112-46-009 | Seal Bay Head | 7700 | A | 4.5 | 8/04 |
| 112-47-010 | Long Bay | 12000 | A | 40 | 8/04 |
| 112-48-015 | Big Goose Creek | 14100 | A | L | 7/28 |
| 112-48-019 | Little Goose Creek | 149 | F | L | 7/21 |
| 112-48-023 | West Bay Head Creek | 2000 | A | L | 7/28 |
| 112-48-035 | Tenakee Inlet Head | 4000 | A | L | 8/11 |
| 112-50-010 | Pavlof River | 40 | F | 0.3 | 8/11 |
| 112-50-020 | Kennel Creek | 500 | A | M | 7/13 |
| 112-50-030 | Freshwater Creek | 600 | A | L | 7/17 |
| 112-61-010 | Point Howard Creek | 300 | A | L | 8/03 |
| 112-65-024 | Greens Creek | 500 | A | L | 8/08 |
| 112-72-010 | Hood Bay N Arm NW HD | 2100 | A | L | 7/20 |
| 112-72-011 | Weir Creek N Arm | 700 | A | L | 7/24 |
| 112-72-012 | Hood Bay N Arm E HD | 500 | A | L | 7/20 |
| 112-73-024 | Weir Creek S Arm | 500 | A | L | 8/17 |
| 112-80-028 | Chaik Bay Creek | 2000 | A | L | 8/17 |
| 112-90-014 | Whitewater Creek | 2550 | A | L | 8/17 |
| 113-22-015 | Whale Bay | 2500 | A | L | 7/29 |
| 113-32-005 | W. Crawfish NE Arm | 1224 | F | L | 8/25 |
| 113-41-028 | Bear Creek | 250 | W | L | 10/15 |
| 113-41-032 | Salmon Lake Stream | 2557 | F | L | 9/14 |
| 113-41-043 | Redoubt Lake | 118 | W | L | 10/03 |
| 113-43-002 | Nakwasina River | 8449 | F | L | 9/16 |
| 113-72-006 | Sister Lake | 500 | A | M | 8/29 |
| 113-73-003 | Lake Stream Ford Arm | 2000 | F | L | 8/28 |
| 113-81-011 | Black River | 10000 | A | M | 7/28 |

-Continued-

Table 14. Peak escapement by individual stream for Southeastern Alaska chum salmon systems, 1982. Survey code is: (F) foot, (H) helicopter, (A) aerial, (B) boat, (W) weir. L designates entire length of stream surveyed, M a survey at the mouth of a stream, T a tidal survey, and numeric values are distances in miles (continued).

| Stream Number | Stream Name | Count | Method | Distance | Date |
|---------------|--------------------|--------|--------|----------|-------|
| 114-23-070 | Mud Bay River | 400 | A | L | 8/03 |
| 114-25-010 | Homesore Creek | 550 | A | L | 8/08 |
| 114-25-035 | West Swanson Creek | 500 | A | L | 7/28 |
| 114-27-030 | Spasski Creek | 500 | A | L | 8/08 |
| 114-31-009 | Gartina Creek | 1000 | A | L | 7/28 |
| 114-31-013 | Game Creek | 8000 | A | L | 7/28 |
| 114-32-004 | Seagull Creek | 1550 | A | L | 8/03 |
| 114-32-006 | Bear Creek | 1400 | A | L | 8/03 |
| 114-33-023 | Neka River | 52000 | W | L | 8/08 |
| 114-34-010 | Humpback Creek | 2250 | A | L | 8/03 |
| 114-40-035 | Trail River | 3000 | A | L | 8/03 |
| 114-50-010 | Anchor Bite Creek | 1000 | A | L | 8/03 |
| 114-50-020 | Althorp Creek | 500 | A | L | 8/03 |
| 114-80-020 | Excursion River | 3300 | A | L | 9/13 |
| | | | | | |
| 115-10-032 | S of St James Pt | 600 | A | L | 8/04 |
| 115-10-034 | St James Point | 50 | A | L | 8/04 |
| 115-10-042 | St. James Bay | 825 | A | 1 0 | 7/25 |
| 115-10-046 | St James River | 5000 | A | L | 8/04 |
| 115-10-080 | Endicott River | 250 | A | 2 0 | 7/06 |
| 115-20-052 | Sawmill Creek | 920 | W | L | 8/17 |
| 115-20-062 | Cowee Creek | 67 | F | L | 10/13 |
| 115-32-025 | Chilkat River | 176000 | A | L | 10/14 |
| 115-32-046 | Klehini River | 13000 | A | L | 9/27 |
| 115-32-047 | Mink Creek | 50 | A | L | 8/30 |
| 115-32-050 | Bear Creek | 25 | A | L | 9/19 |
| 115-32-057 | 31 Mile Creek | 2000 | A | L | 9/19 |
| 115-32-081 | 18 Mile Slough | 150 | A | L | 9/19 |

Chum salmon escapements greater than 10,000 fish were observed in Tombstone River (District 101), Disappearance Creek, and Lagoon Creek (District 102), Harding River (District 107), Kadashan Creek, Saltery Bay Head, Long Bay, and Big Goose Creek (District 112), Black River (District 113), Neka River (District 114), and Chilkat River and Klehini River (District 115).

Scale, sex, and length data were obtained for 12 streams in the Southeastern Region (Table 15 and 16, and Appendix Tables 43-66). The small number of streams where chum salmon escapement samples were obtained precludes extrapolation of age, sex, and size data to the overall escapement. However, several differences in age and sex composition of the escapement were noted. Most streams from which escapement samples were obtain had approximately equal numbers of male and female chum salmon in the sample. However, Farragut River and Beaver Falls Hatchery samples contained proportionally a larger number of males (73.5% and 64.2%, respectively) and Montana Creek, Herman River, and Klehini River samples were disproportionately female (63.8%, 63.7%, and 57.5%, respectively). As in the commercial catch, the majority of chum salmon sampled in escapement surveys were 4-year-old fish. Five-year-old fish appear to be similar in proportion of escapement samples to both purse seine and gillnet catches. From 7.5% to 36.0% of escapement samples were classified as age 04 chum salmon. Three-year-old fish appear to be relatively less abundant in escapement samples than either purse seine or gillnet catches. Only Beaver Falls and Hidden Falls hatcheries had escapements with greater than 10% age 02 chum salmon.

In general, length data of escapement samples were consistent with those of commercial catch samples (Table 16). Due to small sample sizes, Hidden Falls Hatchery samples were combined over sampling periods, resulting in an average length of chum salmon by age and sex. There was a significant decrease in size of Hidden Falls Hatchery chum in late sampling periods (Appendix Table 54), similar to the commercial catches in District 101 and 102. Chilkat River samples were smaller in length than corresponding age and sex samples obtained from other river systems. As was observed for commercial catches, males were, on the average, larger than females of the same drainage and sex.

Basic statistics concerning the migratory time distributions of the 12 weired streams where significant numbers of chum salmon were counted are presented in Table 17 and Appendix Tables 67-78. Some hatchery weirs would hold chum salmon for several days in pens for spawning purposes. Therefore, counts are biased and produce means slightly later than the actual mean of the migratory time distribution of the population. Means ranged from 18 July to 24 September and variances from 21 to 312 days squared. The migratory time distributions of relatively late chum salmon populations tended to be left-skewed, and those of early populations were right-skewed. No consistent pattern in the shape or character of the migratory time distribution by district was noted.

Table 15. Summary of age composition of the escapement of chum salmon in Southeastern Alaska by surveyed stream, 1983. Standard errors are in parentheses.

| Sex/ Age | Stream | | | | | | |
|-------------|-----------------------------|-------------------------------|-------------------|------------------|---------------------|-----------------------------|-------------------|
| | Beaver Falls Hatchery | Stikine River Fishwheel | Farragut River | Montana Creek | Snettisham River | Hidden Falls Hatchery | Kadashan River |
| Male | 64.2(2.4) | 46.7(7.6) | 73.5(7.7) | 36.2(2.5) | 57.4(1.9) | 47.4(1.0) | 50.5(2.6) |
| 02 | 22.2(2.1) | 4.4(3.1) | 0.0(0.0) | 0.0(0.0) | 3.5(0.7) | 7.3(0.5) | 3.0(0.9) |
| 03 | 24.9(2.2) | 33.3(7.1) | 61.8(8.5) | 30.0(2.4) | 36.8(1.9) | 35.5(1.0) | 41.6(2.6) |
| 04 | 17.1(1.9) | 6.7(3.8) | 11.8(5.6) | 5.6(1.2) | 16.9(1.4) | 4.6(0.4) | 5.7(1.2) |
| 05 | 0.0(0.0) | 2.2(2.2) | 0.0(0.0) | 0.5(0.4) | 0.1(0.1) | 0.0(0.0) | 0.3(0.3) |
| Female | 35.8(2.4) | 51.1(7.6) | 26.5(7.7) | 63.8(2.5) | 42.6(1.9) | 52.6(1.0) | 49.5(2.6) |
| 02 | 11.1(1.6) | 0.0(0.0) | 0.0(0.0) | 0.0(0.0) | 1.2(0.4) | 3.0(0.4) | 1.6(0.7) |
| 03 | 16.4(1.9) | 42.2(7.4) | 23.5(7.4) | 48.0(2.6) | 30.9(1.8) | 44.9(1.0) | 36.8(2.5) |
| 04 | 8.3(1.4) | 6.7(3.8) | 2.9(2.9) | 15.8(1.9) | 10.4(1.2) | 4.6(0.4) | 10.5(1.6) |
| 05 | 0.0(0.0) | 2.2(2.2) | 0.0(0.0) | 0.0(0.0) | 0.1(0.1) | 0.0(0.0) | 0.5(0.4) |
| Both Sexes | | | | | | | |
| 02 | 33.2(2.4) | 4.4(3.1) | 0.0(0.0) | 0.0(0.0) | 4.7(0.8) | 10.3(0.6) | 4.6(1.1) |
| 03 | 41.3(2.3) | 75.6(6.5) | 85.3(6.2) | 78.0(2.1) | 67.6(1.8) | 84.4(0.8) | 78.4(2.1) |
| 04 | 25.4(2.2) | 13.3(5.1) | 14.7(6.2) | 21.4(2.1) | 27.4(1.7) | 9.2(0.6) | 16.2(1.9) |
| 05 | 0.0(0.0) | 6.7(3.8) | 0.0(0.0) | 0.5(0.4) | 0.3(0.2) | 0.0(0.0) | 0.8(0.5) |

-Continued-

Table 15. Summary of age composition of the escapement of chum salmon in Southeastern Alaska by surveyed stream, 1983. Standard errors are in parentheses (continued).

| | | Stream | | | | |
|-------------------|--|---------------|--------------------|------------------|-----------------|------------------|
| Sex/ Age | | Neka River | Excursion River | Chilkat River | Herman River | Kleheni River |
| Male | | 50.1(2.1) | 55.2(2.0) | 56.6(3.1) | 36.3(4.2) | 42.5(1.6) |
| 01 | | 0.2(0.2) | 0.0(0.0) | 0.0(0.0) | 0.0(0.0) | 0.0(0.0) |
| 02 | | 0.2(0.2) | 0.8(0.4) | 2.3(0.9) | 1.5(1.1) | 1.0(0.3) |
| 03 | | 47.0(0.9) | 48.6(2.0) | 46.5(3.1) | 25.2(3.8) | 26.1(1.4) |
| 04 | | 2.8(0.2) | 5.5(0.9) | 7.8(1.7) | 9.6(2.5) | 15.4(1.2) |
| 05 | | 0.0(0.0) | 0.3(0.2) | 0.0(0.0) | 0.0(0.0) | 0.0(0.0) |
| Female | | 49.9(2.1) | 44.8(2.0) | 43.4(3.1) | 63.7(4.2) | 57.5(1.6) |
| 02 | | 0.3(0.2) | 1.6(0.5) | 1.9(0.9) | 5.9(2.0) | 1.5(0.4) |
| 03 | | 44.5(2.1) | 39.4(1.9) | 32.2(2.9) | 40.0(4.2) | 35.2(1.6) |
| 04 | | 4.7(0.9) | 3.9(0.8) | 9.3(1.8) | 17.8(3.3) | 20.6(1.3) |
| 05 | | 0.3(0.2) | 0.0(0.0) | 0.0(0.0) | 0.0(0.0) | 0.2(0.1) |
| Both Sexes | | | | | | |
| 01 | | 0.2(0.2) | 0.0(0.0) | 0.0(0.0) | 0.0(0.0) | 0.0(0.0) |
| 02 | | 0.5(0.3) | 2.3(0.6) | 4.3(1.3) | 7.4(2.3) | 2.4(0.5) |
| 03 | | 91.5(1.2) | 88.0(1.3) | 78.7(2.6) | 65.2(4.1) | 61.3(1.6) |
| 04 | | 7.5(1.1) | 9.4(1.2) | 17.1(2.3) | 27.4(3.9) | 36.0(1.6) |
| 05 | | 0.3(0.2) | 0.3(0.2) | 0.0(0.0) | 0.0(0.0) | 0.2(0.1) |

Table 16. Summary of average length of the escapement of chum salmon in Southeastern Alaska by surveyed stream, 1983. Standard errors are in parentheses.

| District/ Period | 01 | 02 | Male | | | 02 | Female | | |
|---------------------------------------|----|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | | | 03 | 04 | 05 | | 03 | 04 | 05 |
| Beaver Falls Hatchery | | 585(3.2) | 631(3.2) | 664(4.1) | | 591(3.7) | 639(3.6) | 664(4.1) | |
| Stikine River Fishwheel | | 603(17.5) | 672(11.7) | 661(39.2) | 760(—) | | 628(8.5) | 612(27.7) | 660(—) |
| Farragut River | | | 653(7.9) | 713(20.9) | | 618(9.4) | 620(—) | | |
| Montana Creek | | | 660(3.4) | 670(8.4) | 673(17.5) | | 634(2.0) | 650(4.2) | |
| Spettisham River | | 578(9.2) | 659(2.4) | 678(3.3) | 623(—) | 574(11.7) | 629(2.1) | 655(3.8) | 772(—) |
| Hidden Falls Hatchery 7/17-8/27 | | 570(6.7) | 644(3.6) | 682(9.7) | | 586(9.1) | 632(2.3) | 664(4.6) | |
| Kadashan River | | 564(19.1) | 636(3.4) | 660(8.0) | 665(—) | 617(10.1) | 621(2.4) | 637(5.0) | 668(12.5) |
| Neka River | | 550(—) | 648(3.2) | 688(9.1) | | 635(0.0) | 637(1.8) | 668(5.8) | 652(24.0) |
| Excursion River | | 598(17.6) | 661(1.8) | 669(5.4) | 715(15.0) | 575(5.9) | 645(1.8) | 667(4.8) | |
| Chilkat River | | 538(17.1) | 589(2.6) | 610(7.0) | | 533(8.7) | 559(2.8) | 583(4.5) | |
| Herman River | | 575(10.0) | 649(5.3) | 655(11.5) | | 576(13.3) | 622(4.1) | 637(7.1) | |
| Kleheni River | | 608(14.3) | 655(2.0) | 685(2.5) | | 601(8.0) | 632(1.7) | 657(1.9) | 665(5.0) |

Table 17. Description of the migratory time distributions of selected Southeastern Alaska chum salmon migrations, 1983.

| Weir | Mean | Variance | Date of 25% Passage | Median | Day of 75% Passage | Comment |
|-------------------|-----------|-------------------------|---------------------|-----------|--------------------|--|
| Auke Creek | August 23 | 78.6 days ² | August 15 | August 22 | August 30 | Sporadic counts. Large numbers counted on Aug. 15, Aug. 21-24, and Sept. 3-4. Males precede females. |
| Salmon Creek | August 1 | 32.4 days ² | July 27 | July 30 | August 6 | Highly skewed to the right. 35% of total was observed on second day. Males and females have similar timing. |
| Montana Creek | July 25 | 91.1 days ² | July 18 | July 23 | August 1 | Fairly consistent migration. Somewhat skewed to the right. Males and females have similar timing. |
| Kadashan River | July 31 | 36.1 days ² | July 28 | July 31 | August 7 | Trimodal distribution. Peaks at July 22, July 31, and Aug. 7. West and East Fork have similar timing. Skewed to right. |
| Sawmill Creek | July 28 | 60.2 days ² | July 22 | July 28 | August 4 | Consistent migration, maybe truncated at beginning of weir operations. Skewed to right. |
| Karta River | Sept. 5 | 22.4 days ² | Sept. 3 | Sept. 6 | Sept. 9 | Highly skewed to left. Distribution maybe truncated at end. Consistent numbers counted after August 30. |
| King Salmon River | July 18 | 20.8 days ² | July 15 | July 19 | July 20 | Skewed to left. Distribution truncated at end. Peak counts July 10 and July 17 to July 22. |
| Klawock River | Sept. 19 | 243.0 days ² | Sept. 14 | Sept. 23 | Oct. 2 | Skewed to left. Counts were relatively consistent. |
| Chilkoot River | Sept. 24 | 294.8 days ² | Sept. 10 | Sept. 26 | Oct. 7 | Counts relatively consistent between late Sept. and mid-Oct. |
| Naha River | August 24 | 52.7 days ² | August 7 | August 16 | August 20 | Skewed to left. Bimodal distribution with peak counts Aug. 1-9 and Aug. 14-22. |
| Redoubt River | August 17 | 312.3 days ² | August 7 | August 14 | August 30 | Very small numbers counted for a very long time. Peak count 21 on Aug. 7 |
| Tamgas Creek | Sept. 23 | 29.8 days ² | Sept. 19 | Sept. 25 | Sept. 27 | Skewed to the left. Relatively consistent counts. |

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LITERATURE CITED

- Clark, J.E. and A.J. McGregor. 1983. Age, sex, and size of chum salmon (*Oncorhynchus keta* Walbaum) from catches and escapements in Southeastern Alaska, 1982. ADF&G Technical Data Report No. 99, 141 pp.
- Helle, John H. 1979. Influence of marine environment on age and size at maturity, growth, and abundance of chum salmon, *Oncorhynchus keta* (Walbaum), from Olsen Creek, Prince William Sound, Alaska. Ph.D. Thesis, Oregon State University. 118 pp.
- Jones, J.D. 1984. Salmon information retrieval system. Unpublished document. Alaska Dept. of Fish and Game, Juneau, Alaska.
- Mills, M.J. 1983. Alaska statewide sport fish harvest studies. Alaska Department of Fish and Game, Federal Aid and Fish Restoration. Annual Report of Progress, 1983-1984.

APPENDICES

Appendix Table 1. District 101 commercial purse seine catch of chum salmon; age and sex composition by sampling period, 1983.

Period Number 1 (7/10/83 to 8/06/83)

| | 01 | 02 | 03 | 04 | 05 | Total |
|-----------------------|-----|------|------|------|-----|-------|
| Male | | | | | | |
| Sample Number | 0 | 36 | 84 | 27 | 0 | 147 |
| Percent | 0.0 | 10.2 | 23.9 | 7.7 | 0.0 | 47.1 |
| Std. Error | 0.0 | 1.6 | 2.3 | 1.4 | 0.0 | 2.8 |
| Number | 0 | 1472 | 3434 | 1104 | 0 | 6010 |
| Female | | | | | | |
| Sample Number | 0 | 26 | 101 | 38 | 0 | 165 |
| Percent | 0.0 | 7.4 | 28.7 | 10.8 | 0.0 | 52.9 |
| Std. Error | 0.0 | 1.4 | 2.4 | 1.7 | 0.0 | 2.8 |
| Number | 0 | 1063 | 4130 | 1554 | 0 | 6746 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 66 | 218 | 68 | 0 | 352 |
| Percent | 0.0 | 18.8 | 61.9 | 19.3 | 0.0 | 100.0 |
| Std. Error | 0.0 | 2.1 | 2.6 | 2.1 | 0.0 | — |
| Number | 0 | 2699 | 8913 | 2780 | 0 | 14392 |

Period Number 2 (8/07/83 to 9/03/83)

| | 01 | 02 | 03 | 04 | 05 | Total |
|-----------------------|-----|------|-------|------|-----|-------|
| Male | | | | | | |
| Sample Number | 0 | 68 | 125 | 75 | 2 | 270 |
| Percent | 0.0 | 10.8 | 19.8 | 11.9 | 0.3 | 42.8 |
| Std. Error | 0.0 | 1.2 | 1.6 | 1.3 | 0.2 | 2.0 |
| Number | 0 | 2850 | 5240 | 3144 | 84 | 11317 |
| Female | | | | | | |
| Sample Number | 0 | 92 | 179 | 90 | 0 | 361 |
| Percent | 0.0 | 14.6 | 28.3 | 14.2 | 0.0 | 57.2 |
| Std. Error | 0.0 | 1.4 | 1.8 | 1.4 | 0.0 | 2.0 |
| Number | 0 | 3856 | 7503 | 3772 | 0 | 15132 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 160 | 305 | 165 | 2 | 632 |
| Percent | 0.0 | 25.3 | 48.3 | 26.1 | 0.3 | 100.0 |
| Std. Error | 0.0 | 1.7 | 2.0 | 1.7 | 0.2 | — |
| Number | 0 | 6707 | 12784 | 6916 | 84 | 26491 |

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Appendix Table 1. District 101 commercial purse seine catch of chum salmon;
age and sex composition by sampling period, 1983 (continued).

Combined Periods (Percentages are weighted by period catches)

| | 01 | 02 | 03 | Age Group 04 | 05 | Total |
|-----------------------|-----|------|-------|-----------------|-----|-------|
| Male | | | | | | |
| Sample Number | 0 | 104 | 209 | 102 | 2 | 417 |
| Percent | 0.0 | 10.6 | 21.2 | 10.4 | 0.2 | 44.2 |
| Std. Error | 0.0 | 1.0 | 1.3 | 1.0 | 0.1 | 1.6 |
| Number | 0 | 4322 | 8674 | 4248 | 84 | 17328 |
| Female | | | | | | |
| Sample Number | 0 | 118 | 280 | 128 | 0 | 526 |
| Percent | 0.0 | 12.0 | 28.5 | 13.0 | 0.0 | 55.8 |
| Std. Error | 0.0 | 1.0 | 1.4 | 1.1 | 0.0 | 1.6 |
| Number | 0 | 4919 | 11633 | 5326 | 0 | 21878 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 226 | 523 | 233 | 2 | 984 |
| Percent | 0.0 | 23.0 | 53.1 | 23.7 | 0.2 | 100.0 |
| Std. Error | 0.0 | 1.3 | 1.6 | 1.4 | 0.1 | — |
| Number | 0 | 9405 | 21698 | 9696 | 84 | 40883 |

Appendix Table 2. District 101 commercial purse seine catch of chum salmon, length (mm) by sex, age, and sampling period, 1983.

| | | Age Group | | |
|-----------------|----------------------|-----------|------|------|
| | 02 | 03 | 04 | 05 |
| Period Number 1 | (7/10/83 to 8/06/83) | | | |
| Males | | | | |
| Ave. Length | 601 | 672 | 680 | |
| Std. Error | 8.3 | 6.1 | 10.5 | |
| Samp. Size | 36 | 84 | 27 | |
| Females | | | | |
| Ave. Length | 583 | 651 | 661 | |
| Std. Error | 9.9 | 4.5 | 6.1 | |
| Samp. Size | 26 | 101 | 38 | |
| Period Number 2 | (8/07/83 to 9/03/83) | | | |
| Males | | | | |
| Ave. Length | 588 | 642 | 659 | 670 |
| Std. Error | 5.4 | 4.6 | 4.7 | 20.0 |
| Samp. Size | 68 | 125 | 75 | 2 |
| Females | | | | |
| Ave. Length | 575 | 634 | 656 | |
| Std. Error | 4.1 | 3.2 | 3.5 | |
| Samp. Size | 92 | 179 | 90 | |

Appendix Table 3. District 102 commercial purse seine catch of chum salmon; age and sex composition by sampling period, 1983.

Period Number 1 (7/17/83 to 8/27/83)

| | 01 | 02 | Age Group 03 | 04 | 05 | Total |
|-----------------------|-----|------|-----------------|------|-----|-------|
| Male | | | | | | |
| Sample Number | 0 | 61 | 117 | 68 | 4 | 250 |
| Percent | 0.0 | 11.4 | 22.0 | 12.8 | 0.8 | 47.1 |
| Std. Error | 0.0 | 1.4 | 1.8 | 1.4 | 0.4 | 2.2 |
| Number | 0 | 2684 | 5148 | 2992 | 176 | 10999 |
| Female | | | | | | |
| Sample Number | 0 | 77 | 127 | 77 | 0 | 281 |
| Percent | 0.0 | 14.4 | 23.8 | 14.4 | 0.0 | 52.9 |
| Std. Error | 0.0 | 1.5 | 1.8 | 1.5 | 0.0 | 2.2 |
| Number | 0 | 3388 | 5588 | 3388 | 0 | 12363 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 138 | 246 | 145 | 4 | 533 |
| Percent | 0.0 | 25.9 | 46.2 | 27.2 | 0.8 | 100.0 |
| Std. Error | 0.0 | 1.9 | 2.2 | 1.9 | 0.4 | — |
| Number | 0 | 6071 | 10823 | 6379 | 176 | 23450 |

Period Number 2 (8/28/83 to 9/17/83)

| | 01 | 02 | Age Group 03 | 04 | 05 | Total |
|-----------------------|-----|------|-----------------|------|-----|-------|
| Male | | | | | | |
| Sample Number | 1 | 44 | 69 | 50 | 1 | 165 |
| Percent | 0.3 | 11.3 | 17.7 | 12.8 | 0.3 | 42.4 |
| Std. Error | 0.3 | 1.6 | 1.9 | 1.7 | 0.3 | 2.5 |
| Number | 62 | 2741 | 4298 | 3114 | 62 | 10277 |
| Female | | | | | | |
| Sample Number | 0 | 60 | 90 | 73 | 1 | 224 |
| Percent | 0.0 | 15.4 | 23.1 | 18.7 | 0.3 | 57.6 |
| Std. Error | 0.0 | 1.8 | 2.1 | 2.0 | 0.3 | 2.5 |
| Number | 0 | 3737 | 5606 | 4547 | 62 | 13952 |
| Sexes Combined | | | | | | |
| Sample Number | 1 | 104 | 160 | 123 | 2 | 390 |
| Percent | 0.3 | 26.7 | 41.0 | 31.5 | 0.5 | 100.0 |
| Std. Error | 0.3 | 2.2 | 2.5 | 2.4 | 0.4 | — |
| Number | 62 | 6478 | 9966 | 7661 | 125 | 24292 |

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Appendix Table 3. District 102 commercial purse seine catch of chum salmon;
age and sex composition by sampling period, 1983 (continued).

Combined Periods (Percentages are weighted by period catches)

| | Age Group | | | | | |
|-----------------------|-----------|-------|-------|-------|-----|-------|
| | 01 | 02 | 03 | 04 | 05 | Total |
| Male | | | | | | |
| Sample Number | 1 | 105 | 186 | 118 | 5 | 415 |
| Percent | 0.1 | 11.4 | 19.8 | 12.8 | 0.5 | 44.7 |
| Std. Error | 0.1 | 1.3 | 1.1 | 0.2 | 0.1 | 1.7 |
| Number | 62 | 5424 | 9445 | 6106 | 238 | 21276 |
| Female | | | | | | |
| Sample Number | 0 | 137 | 217 | 150 | 1 | 505 |
| Percent | 0.0 | 14.9 | 23.4 | 16.6 | 0.1 | 55.3 |
| Std. Error | 0.0 | 1.2 | 1.4 | 1.3 | 0.1 | 1.7 |
| Number | 0 | 7125 | 11193 | 7935 | 62 | 26315 |
| Sexes Combined | | | | | | |
| Sample Number | 1 | 242 | 406 | 268 | 6 | 923 |
| Percent | 0.1 | 26.3 | 43.5 | 29.4 | 0.6 | 100.0 |
| Std. Error | 0.0 | 1.5 | 1.7 | 1.5 | 0.3 | — |
| Number | 62 | 12549 | 20789 | 14041 | 301 | 47742 |

Appendix Table 4. District 102 commercial purse seine catch of chum salmon; length (mm) by sex, age, and sampling period, 1983.

| | 01 | 02 | Age | Group | 04 | 05 |
|-----------------|----------------------|-----|-----|-------|------|----|
| Period Number 1 | (7/17/83 to 8/27/83) | | | | | |
| Males | | | | | | |
| Ave. Length | 490 | 567 | 641 | 656 | 635 | |
| Std. Error | — | 4.2 | 4.5 | 5.0 | 35.4 | |
| Samp. Size | 1 | 61 | 117 | 68 | 4 | |
| Females | | | | | | |
| Ave. Length | | 568 | 627 | 656 | | |
| Std. Error | | 4.0 | 4.1 | 4.5 | | |
| Samp. Size | | 77 | 127 | 77 | | |
| Period Number 2 | (8/28/83 to 9/17/83) | | | | | |
| Males | | | | | | |
| Ave. Length | | 559 | 619 | 640 | 615 | |
| Std. Error | | 5.1 | 5.2 | 4.4 | — | |
| Samp. Size | | 44 | 69 | 50 | 1 | |
| Females | | | | | | |
| Ave. Length | | 568 | 625 | 638 | 640 | |
| Std. Error | | 5.0 | 3.5 | 3.6 | — | |
| Samp. Size | | 60 | 90 | 73 | 1 | |

Appendix Table 5. District 103 commercial purse seine catch of chum salmon;
age and sex composition by sampling period, 1983.

Period Number 1 (7/31/83 to 8/20/83)

| | 01 | 02 | 03 | Age Group 04 | 05 | total |
|-----------------------|-----|------|------|-----------------|-----|-------|
| Male | | | | | | |
| Sample Number | 0 | 29 | 94 | 17 | 0 | 140 |
| Percent | 0.0 | 11.0 | 35.7 | 6.5 | 0.0 | 53.2 |
| Std. Error | 0.0 | 1.9 | 3.0 | 1.5 | 0.0 | 3.1 |
| Number | 0 | 1660 | 5380 | 973 | 0 | 8013 |
| Female | | | | | | |
| Sample Number | 0 | 27 | 77 | 19 | 0 | 123 |
| Percent | 0.0 | 10.3 | 29.3 | 7.2 | 0.0 | 46.8 |
| Std. Error | 0.0 | 1.9 | 2.8 | 1.6 | 0.0 | 3.1 |
| Number | 0 | 1545 | 4407 | 1087 | 0 | 7040 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 56 | 171 | 36 | 0 | 263 |
| Percent | 0.0 | 21.3 | 65.0 | 13.7 | 0.0 | 100.0 |
| Std. Error | 0.0 | 2.5 | 2.9 | 2.1 | 0.0 | — |
| Number | 0 | 3205 | 9787 | 2060 | 0 | 15053 |

Period Number 2 (8/21/83 to 8/27/83)

| | 01 | 02 | 03 | Age Group 04 | 05 | Total |
|-----------------------|-----|------|------|-----------------|-----|-------|
| Male | | | | | | |
| Sample Number | 0 | 44 | 125 | 33 | 0 | 202 |
| Percent | 0.0 | 11.6 | 32.9 | 8.7 | 0.0 | 53.9 |
| Std. Error | 0.0 | 1.6 | 2.4 | 1.4 | 0.0 | 2.6 |
| Number | 0 | 1623 | 4611 | 1217 | 0 | 7452 |
| Female | | | | | | |
| Sample Number | 0 | 28 | 106 | 39 | 0 | 173 |
| Percent | 0.0 | 7.4 | 27.9 | 10.3 | 0.0 | 46.1 |
| Std. Error | 0.0 | 1.3 | 2.3 | 1.6 | 0.0 | 2.6 |
| Number | 0 | 1033 | 3910 | 1439 | 0 | 6382 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 72 | 234 | 74 | 0 | 380 |
| Percent | 0.0 | 18.9 | 61.6 | 19.5 | 0.0 | 100.0 |
| Std. Error | 0.0 | 2.0 | 2.5 | 2.0 | 0.0 | — |
| Number | 0 | 2656 | 8632 | 2730 | 0 | 14018 |

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Appendix Table 5. District 103 commercial purse seine catch of chum salmon;
age and sex composition by sampling period, 1983 (continued).

Period Number 3 (8/28/83 to 9/03/83)

| | 01 | 02 | 03 | Age Group 04 | 05 | Total |
|-----------------------|-----|------|------|-----------------|-----|-------|
| Male | | | | | | |
| Sample Number | 0 | 29 | 48 | 28 | 1 | 106 |
| Percent | 0.0 | 11.5 | 19.0 | 11.1 | 0.4 | 41.9 |
| Std. Error | 0.0 | 2.0 | 2.5 | 2.0 | 0.4 | 3.1 |
| Number | 0 | 454 | 752 | 439 | 16 | 1660 |
| Female | | | | | | |
| Sample Number | 0 | 40 | 72 | 35 | 0 | 147 |
| Percent | 0.0 | 15.8 | 28.5 | 13.8 | 0.0 | 58.1 |
| Std. Error | 0.0 | 2.3 | 2.8 | 2.2 | 0.0 | 3.1 |
| Number | 0 | 627 | 1128 | 548 | 0 | 2303 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 69 | 120 | 63 | 1 | 253 |
| Percent | 0.0 | 27.3 | 47.4 | 24.9 | 0.4 | 100.0 |
| Std. Error | 0.0 | 2.8 | 3.1 | 2.7 | 0.4 | — |
| Number | 0 | 1081 | 1880 | 987 | 16 | 3963 |

Combined Periods (Percentages are weighted by period catches)

| | 01 | 02 | 03 | Age Group 04 | 05 | Total |
|-----------------------|-----|------|-------|-----------------|-----|-------|
| Male | | | | | | |
| Sample Number | 0 | 102 | 267 | 78 | 1 | 448 |
| Percent | 0.0 | 11.3 | 32.5 | 8.0 | 0.0 | 52.1 |
| Std. Error | 0.0 | 1.1 | 1.7 | 1.0 | 0.0 | 1.8 |
| Number | 0 | 3737 | 10743 | 2629 | 16 | 17125 |
| Female | | | | | | |
| Sample Number | 0 | 95 | 255 | 93 | 0 | 443 |
| Percent | 0.0 | 9.7 | 28.6 | 9.3 | 0.0 | 47.9 |
| Std. Error | 0.0 | 1.1 | 1.6 | 1.0 | 0.0 | 1.8 |
| Number | 0 | 3205 | 9445 | 3074 | 0 | 15724 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 197 | 525 | 173 | 1 | 896 |
| Percent | 0.0 | 21.0 | 61.4 | 17.5 | 0.0 | 100.0 |
| Std. Error | 0.0 | 1.5 | 1.7 | 1.3 | 0.0 | — |
| Number | 0 | 6942 | 20299 | 5777 | 16 | 33034 |

Appendix Table 6. District 103 commercial purse seine catch of chum salmon; length (mm) by sex, age, and sampling period, 1983.

| | 02 | 03 | Age Group 04 | 05 |
|---|-----|-----|-----------------|----|
| Period Number 1 (7/31/83 to 8/20/83) | | | | |
| Males | | | | |
| Ave. Length | 565 | 619 | 627 | |
| Std. Error | 6.7 | 3.6 | 10.1 | |
| Samp. Size | 29 | 94 | 17 | |
| Females | | | | |
| Ave. Length | 571 | 623 | 635 | |
| Std. Error | 7.1 | 3.7 | 7.8 | |
| Samp. Size | 27 | 77 | 19 | |
| Period Number 2 (8/21/83 to 8/27/83) | | | | |
| Males | | | | |
| Ave. Length | 574 | 622 | 643 | |
| Std. Error | 4.3 | 3.3 | 6.8 | |
| Samp. Size | 44 | 124 | 33 | |
| Females | | | | |
| Ave. Length | 582 | 627 | 651 | |
| Std. Error | 7.8 | 3.6 | 6.4 | |
| Samp. Size | 28 | 106 | 39 | |

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Appendix Table 6. District 103 commercial purse seine catch of chum salmon; length (mm) by sex, age, and sampling period, 1983 (continued).

| | 02 | 03 | Age Group 04 | 05 |
|----------------|-----|----------------------|-----------------|-----|
| Period Number | 3 | (8/28/83 to 9/03/83) | | |
| Males | | | | |
| Ave. Length | 579 | 621 | 653 | 605 |
| Std. Error | 5.9 | 5.1 | 6.8 | --- |
| Samp. Size | 29 | 48 | 28 | 1 |
| Females | | | | |
| Ave. Length | 570 | 613 | 647 | |
| Std. Error | 4.2 | 4.1 | 5.3 | |
| Samp. Size | 40 | 72 | 35 | |

Appendix Table 7. District 104 commercial purse seine catch of chum salmon; age and sex composition by sampling period, 1983.

Period Number 1 (7/03/83 to 7/09/83)

| | 01 | 02 | Age Group 03 | 04 | 05 | Total |
|-----------------------|-----|------|-----------------|------|-----|-------|
| Male | | | | | | |
| Sample Number | 0 | 2 | 29 | 11 | 0 | 42 |
| Percent | 0.0 | 1.0 | 15.0 | 5.7 | 0.0 | 39.6 |
| Std. Error | 0.0 | 0.7 | 2.6 | 1.7 | 0.0 | 4.8 |
| Number | 0 | 218 | 3160 | 1199 | 0 | 4577 |
| Female | | | | | | |
| Sample Number | 0 | 8 | 49 | 7 | 0 | 64 |
| Percent | 0.0 | 4.1 | 25.4 | 3.6 | 0.0 | 60.4 |
| Std. Error | 0.0 | 1.4 | 3.1 | 1.3 | 0.0 | 4.8 |
| Number | 0 | 872 | 5340 | 763 | 0 | 6974 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 19 | 134 | 40 | 0 | 193 |
| Percent | 0.0 | 9.8 | 69.4 | 20.7 | 0.0 | 100.0 |
| Std. Error | 0.0 | 2.1 | 3.3 | 2.9 | 0.0 | — |
| Number | 0 | 2071 | 14603 | 4359 | 0 | 21032 |

Period Number 2 (7/10/83 to 7/16/83)

| | 01 | 02 | Age Group 03 | 04 | 05 | Total |
|-----------------------|-----|------|-----------------|------|-----|-------|
| Male | | | | | | |
| Sample Number | 0 | 6 | 33 | 22 | 0 | 61 |
| Percent | 0.0 | 2.0 | 11.2 | 7.5 | 0.0 | 43.0 |
| Std. Error | 0.0 | 0.8 | 1.8 | 1.5 | 0.0 | 4.2 |
| Number | 0 | 241 | 1323 | 882 | 0 | 2446 |
| Female | | | | | | |
| Sample Number | 0 | 11 | 47 | 23 | 0 | 81 |
| Percent | 0.0 | 3.7 | 16.0 | 7.8 | 0.0 | 57.0 |
| Std. Error | 0.0 | 1.1 | 2.1 | 1.6 | 0.0 | 4.2 |
| Number | 0 | 441 | 1885 | 922 | 0 | 3249 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 29 | 176 | 87 | 2 | 294 |
| Percent | 0.0 | 9.9 | 59.9 | 29.6 | 0.0 | 100.0 |
| Std. Error | 0.0 | 1.7 | 2.9 | 2.7 | 0.0 | — |
| Number | 0 | 1163 | 7059 | 3489 | 0 | 11791 |

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Appendix Table 7. District 104 commercial purse seine catch of chum salmon;
age and sex composition by sampling period, 1983 (continued).

Period Number 3 (7/17/83 to 7/23/83)

No sexes were recorded for period number 3.

| | Age Group | | | | | |
|-----------------------|-----------|------|------|------|-----|-------|
| | 01 | 02 | 03 | 04 | 05 | Total |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 29 | 134 | 60 | 2 | 223 |
| Percent | 0.0 | 13.0 | 60.1 | 29.9 | 0.0 | 100.0 |
| Std. Error | 0.0 | 2.3 | 3.3 | 3.1 | 0.0 | — |
| Number | 0 | 1136 | 5250 | 2350 | 0 | 8736 |

Period Number 4 (7/24/83 to 7/30/83)

| | Age Group | | | | | |
|-----------------------|-----------|------|-------|------|-----|-------|
| | 01 | 02 | 03 | 04 | 05 | Total |
| Male | | | | | | |
| Sample Number | 0 | 8 | 43 | 21 | 1 | 73 |
| Percent | 0.0 | 2.0 | 10.8 | 5.3 | 0.3 | 41.0 |
| Std. Error | 0.0 | 0.7 | 1.6 | 1.1 | 0.3 | 3.7 |
| Number | 0 | 548 | 2947 | 1439 | 69 | 5003 |
| Female | | | | | | |
| Sample Number | 0 | 25 | 50 | 29 | 1 | 105 |
| Percent | 0.0 | 6.3 | 12.5 | 7.3 | 0.3 | 59.0 |
| Std. Error | 0.0 | 1.2 | 1.7 | 1.3 | 0.3 | 3.7 |
| Number | 0 | 1713 | 3426 | 1987 | 69 | 7195 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 59 | 230 | 108 | 3 | 400 |
| Percent | 0.0 | 14.7 | 57.5 | 27.0 | 0.8 | 100.0 |
| Std. Error | 0.0 | 1.8 | 2.5 | 2.2 | 0.4 | — |
| Number | 0 | 4043 | 15761 | 7401 | 206 | 27411 |

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Appendix Table 7. District 104 commercial purse seine catch of chum salmon; age and sex composition by sampling period, 1983 (continued).

Period Number 5 (7/31/83 to 8/06/83)

| | 01 | 02 | 03 | Age Group 04 | 05 | Total |
|-----------------------|-----|------|-------|-----------------|-----|-------|
| Male | | | | | | |
| Sample Number | 0 | 2 | 18 | 5 | 0 | 25 |
| Percent | 0.0 | 0.7 | 6.3 | 1.7 | 0.0 | 26.0 |
| Std. Error | 0.0 | 0.5 | 1.4 | 0.8 | 0.0 | 4.5 |
| Number | 0 | 244 | 2193 | 609 | 0 | 3046 |
| Female | | | | | | |
| Sample Number | 0 | 13 | 34 | 24 | 0 | 71 |
| Percent | 0.0 | 4.5 | 11.8 | 8.3 | 0.0 | 74.0 |
| Std. Error | 0.0 | 1.2 | 1.9 | 1.6 | 0.0 | 4.5 |
| Number | 0 | 1584 | 4142 | 2924 | 0 | 8650 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 37 | 173 | 78 | 0 | 288 |
| Percent | 0.0 | 12.8 | 60.1 | 27.1 | 0.0 | 100.0 |
| Std. Error | 0.0 | 2.0 | 2.9 | 2.6 | 0.0 | — |
| Number | 0 | 4508 | 21078 | 9503 | 0 | 35089 |

Period Number 6 (8/07/83 to 8/20/83)

| | 01 | 02 | 03 | Age Group 04 | 05 | Total |
|-----------------------|-----|------|-------|-----------------|-----|-------|
| Male | | | | | | |
| Sample Number | 0 | 11 | 57 | 18 | 0 | 86 |
| Percent | 0.0 | 3.9 | 20.2 | 6.4 | 0.0 | 43.9 |
| Std. Error | 0.0 | 1.2 | 2.4 | 1.5 | 0.0 | 3.6 |
| Number | 0 | 2007 | 10399 | 3284 | 0 | 15690 |
| Female | | | | | | |
| Sample Number | 0 | 11 | 74 | 25 | 0 | 110 |
| Percent | 0.0 | 3.9 | 26.2 | 8.9 | 0.0 | 56.1 |
| Std. Error | 0.0 | 1.2 | 2.6 | 1.7 | 0.0 | 3.6 |
| Number | 0 | 2007 | 13501 | 4561 | 0 | 20069 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 38 | 178 | 65 | 1 | 282 |
| Percent | 0.0 | 13.5 | 63.1 | 23.0 | 0.0 | 100.0 |
| Std. Error | 0.0 | 2.0 | 2.9 | 2.5 | 0.0 | — |
| Number | 0 | 6933 | 32476 | 11859 | 0 | 51450 |

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Appendix Table 7. District 104 commercial purse seine catch of chum salmon; age and sex composition by sampling period, 1983 (continued).

Period Number 7 (8/21/83 to 8/27/83)

| | 01 | 02 | 03 | Age Group 04 | 05 | Total |
|-----------------------|-----|------|------|-----------------|-----|-------|
| Male | | | | | | |
| Sample Number | 0 | 14 | 49 | 16 | 0 | 79 |
| Percent | 0.0 | 6.4 | 22.4 | 7.3 | 0.0 | 36.2 |
| Std. Error | 0.0 | 1.7 | 2.8 | 1.8 | 0.0 | 3.3 |
| Number | 0 | 913 | 3194 | 1043 | 0 | 5149 |
| Female | | | | | | |
| Sample Number | 0 | 13 | 89 | 37 | 0 | 139 |
| Percent | 0.0 | 5.9 | 40.6 | 16.9 | 0.0 | 63.8 |
| Std. Error | 0.0 | 1.6 | 3.3 | 2.5 | 0.1 | 3.3 |
| Number | 0 | 847 | 5801 | 2412 | 0 | 9060 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 27 | 138 | 54 | 0 | 219 |
| Percent | 0.0 | 12.3 | 63.0 | 24.7 | 0.0 | 100.0 |
| Std. Error | 0.0 | 2.2 | 3.3 | 2.9 | 0.0 | — |
| Number | 0 | 1760 | 8995 | 3520 | 0 | 14275 |

Combined Periods (Percentages are weighted by period catches)

| | 01 | 02 | 03 | Age Group 04 | 05 | Total |
|-----------------------|-----|-------|--------|-----------------|-----|--------|
| Male | | | | | | |
| Sample Number | 0 | 43 | 229 | 93 | 1 | 366 |
| Percent | 0.0 | 2.5 | 13.7 | 5.0 | 0.0 | 38.8 |
| Std. Error | 0.0 | 0.4 | 1.0 | 0.6 | 0.0 | 2.5 |
| Number | 0 | 4170 | 23217 | 8456 | 69 | 35912 |
| Female | | | | | | |
| Sample Number | 0 | 81 | 343 | 145 | 1 | 570 |
| Percent | 0.0 | 4.4 | 20.1 | 8.0 | 0.0 | 61.2 |
| Std. Error | 0.0 | 0.6 | 1.1 | 0.7 | 0.0 | 2.5 |
| Number | 0 | 7464 | 34096 | 13570 | 69 | 55198 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 238 | 1163 | 492 | 6 | 1899 |
| Percent | 0.0 | 12.7 | 62.2 | 25.0 | 0.1 | 100.0 |
| Std. Error | 0.0 | 0.9 | 1.3 | 1.1 | 0.1 | — |
| Number | 0 | 21586 | 105516 | 42463 | 219 | 169784 |

Appendix Table 8. District 104 commercial purse seine catch of chum salmon; length (mm) by sex, age, and sampling period, 1983.

| | 02 | 03 | Age Group 04 |
|--|----|----|-----------------|
|--|----|----|-----------------|

Period Number 1 (7/03/83 to 7/09/83)

Males

| | | | |
|-------------|------|------|------|
| Ave. Length | 594 | 683 | 689 |
| Std. Error | 24.0 | 10.7 | 13.3 |
| Samp. Size | 2 | 29 | 11 |

Females

| | | | |
|-------------|------|-----|------|
| Ave. Length | 600 | 649 | 668 |
| Std. Error | 10.0 | 8.3 | 11.1 |
| Samp. Size | 8 | 49 | 7 |

Period Number 2 (7/10/83 to 7/16/83)

Males

| | | | |
|-------------|------|------|------|
| Ave. Length | 574 | 660 | 657 |
| Std. Error | 17.3 | 10.0 | 11.6 |
| Samp. Size | 6 | 33 | 22 |

Females

| | | | |
|-------------|-----|-----|-----|
| Ave. Length | 557 | 618 | 643 |
| Std. Error | 9.9 | 5.7 | 6.0 |
| Samp. Size | 11 | 47 | 23 |

Period Number 3 (7/17/83 to 7/23/83)

Sex was not assigned to any samples in period 3.

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Appendix Table 8. District 104 commercial purse seine catch of chum salmon; length (mm) by sex, age, and sampling period, 1983 (continued).

| | 02 | 03 | Age Group 04 | 05 |
|---|------|------|-----------------|-----|
| Period Number 4 (7/24/83 to 7/30/83) | | | | |
| Males | | | | |
| Ave. Length | 621 | 660 | 659 | 720 |
| Std. Error | 24.3 | 8.8 | 10.0 | --- |
| Samp. Size | 8 | 43 | 21 | 1 |
| Females | | | | |
| Ave. Length | 573 | 635 | 659 | 650 |
| Std. Error | 10.1 | 6.7 | 7.1 | --- |
| Samp. Size | 25 | 50 | 29 | 1 |
| Period Number 5 (7/31/83 to 8/06/83) | | | | |
| Males | | | | |
| Ave. Length | 602 | 642 | 663 | |
| Std. Error | 2.5 | 13.0 | 18.2 | |
| Samp. Size | 2 | 18 | 5 | |
| Females | | | | |
| Ave. Length | 571 | 647 | 666 | |
| Std. Error | 13.2 | 6.4 | 6.2 | |
| Samp. Size | 13 | 33 | 24 | |

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Appendix Table 8. District 104 commercial purse seine catch of chum salmon; length (mm) by sex, age, and sampling period, 1983 (continued).

| | 02 | 03 | Age Group 04 | 05 |
|--|----|----|-----------------|----|
|--|----|----|-----------------|----|

Period Number 6 (8/07/83 to 8/20/83)

Males

| | | | |
|-------------|-----|-----|-----|
| Ave. Length | 568 | 641 | 661 |
| Std. Error | 8.1 | 5.8 | 8.5 |
| Samp. Size | 11 | 57 | 18 |

Females

| | | | |
|-------------|-----|-----|-----|
| Ave. Length | 561 | 642 | 642 |
| Std. Error | 8.2 | 3.8 | 6.6 |
| Samp. Size | 11 | 74 | 25 |

Period Number 7 (8/21/83 to 8/27/83)

Males

| | | | |
|-------------|-----|-----|-----|
| Ave. Length | 567 | 634 | 648 |
| Std. Error | 9.2 | 5.8 | 8.8 |
| Samp. Size | 14 | 49 | 16 |

Females

| | | | |
|-------------|-----|-----|-----|
| Ave. Length | 565 | 635 | 658 |
| Std. Error | 6.7 | 4.9 | 6.3 |
| Samp. Size | 13 | 89 | 37 |

Appendix Table 9. District 105 commercial purse seine catch of chum salmon;
age and sex composition by sampling period, 1983.

| | 01 | 02 | 03 | Age Group 04 | 05 | Total |
|-----------------------|-----|------|------|-----------------|-----|-------|
| Male | | | | | | |
| Sample Number | 0 | 24 | 159 | 18 | 1 | 202 |
| Percent | 0.0 | 5.1 | 33.5 | 3.8 | 0.2 | 42.5 |
| Std. Error | 0.0 | 1.0 | 2.2 | 0.9 | 0.2 | 2.3 |
| Number | 0 | 653 | 4324 | 490 | 27 | 5494 |
| Female | | | | | | |
| Sample Number | 0 | 24 | 203 | 44 | 2 | 273 |
| Percent | 0.0 | 5.1 | 42.7 | 9.3 | 0.4 | 57.5 |
| Std. Error | 0.0 | 1.0 | 2.3 | 1.3 | 0.3 | 2.3 |
| Number | 0 | 653 | 5521 | 1197 | 54 | 7424 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 48 | 362 | 62 | 3 | 475 |
| Percent | 0.0 | 10.1 | 76.2 | 13.1 | 0.6 | 100.0 |
| Std. Error | 0.0 | 1.4 | 2.0 | 1.5 | 0.4 | — |
| Number | 0 | 1305 | 9845 | 1686 | 82 | 12918 |

Appendix Table 10. District 105 commercial purse seine catch of chum salmon;
length (mm) by sex, age, and sampling periods, 1983.

| | 02 | 03 | Age Group 04 | 05 |
|--|------|-----|-----------------|------|
| Combined Periods (8/07/83 to 8/27/83) | | | | |
| Males | | | | |
| Ave. Length | 558 | 627 | 650 | 658 |
| Std. Error | 7.0 | 3.2 | 6.4 | — |
| Samp. Size | 24 | 159 | 18 | 1 |
| Females | | | | |
| Ave. Length | 563 | 617 | 627 | 624 |
| Std. Error | 13.6 | 2.5 | 5.7 | 24.0 |
| Samp. Size | 24 | 203 | 44 | 2 |

Appendix Table 11. District 106 commercial purse seine catch of chum salmon;
age and sex composition by sampling period, 1983.

Combined Periods (8/7/83 to 8/20/83)

| | 01 | 02 | 03 | Age Group 04 | 05 | Total |
|-----------------------|-----|------|------|-----------------|-----|-------|
| Male | | | | | | |
| Sample Number | 0 | 9 | 6 | 1 | 0 | 16 |
| Percent | 0.0 | 12.9 | 8.6 | 1.4 | 0.0 | 22.9 |
| Std. Error | 0.0 | 4.0 | 3.4 | 1.4 | 0.0 | 5.0 |
| Number | 0 | 195 | 130 | 22 | 0 | 347 |
| Female | | | | | | |
| Sample Number | 0 | 27 | 15 | 12 | 0 | 54 |
| Percent | 0.0 | 38.6 | 21.4 | 17.1 | 0.0 | 77.1 |
| Std. Error | 0.0 | 5.9 | 4.9 | 4.5 | 0.0 | 5.0 |
| Number | 0 | 586 | 325 | 260 | 0 | 1171 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 36 | 21 | 13 | 0 | 70 |
| Percent | 0.0 | 51.4 | 30.0 | 18.6 | 0.0 | 100.0 |
| Std. Error | 0.0 | 6.0 | 5.5 | 4.7 | 0.0 | — |
| Number | 0 | 781 | 455 | 282 | 0 | 1518 |

Appendix Table 12. District 106 commercial purse seine catch of chum salmon; length (mm) by sex, age, and sampling period, 1983.

| | 02 | 03 | Age Group 04 | 05 |
|------------------|----------------------|------|-----------------|----|
| Combined Periods | (8/07/83 to 8/20/83) | | | |
| Males | | | | |
| Ave. Length | 572 | 620 | 648 | |
| Std. Error | 12.5 | 14.0 | --- | |
| Samp. Size | 9 | 6 | 1 | |
| Females | | | | |
| Ave. Length | 554 | 613 | 644 | |
| Std. Error | 6.5 | 12.9 | 7.0 | |
| Samp. Size | 27 | 15 | 12 | |

Appendix Table 13. District 107 commercial purse seine catch of chum salmon; age and sex composition by sampling period, 1983.

Combined Periods (8/7/83 to 9/3/83)

| | 01 | 02 | 03 | Age Group 04 | 05 | Total |
|-----------------------|-----|------|------|-----------------|-----|-------|
| Male | | | | | | |
| Sample Number | 0 | 33 | 76 | 27 | 2 | 138 |
| Percent | 0.0 | 15.4 | 35.5 | 12.6 | 0.9 | 64.8 |
| Std. Error | 0.0 | 2.5 | 3.3 | 2.3 | 0.6 | 3.3 |
| Number | 0 | 479 | 1102 | 392 | 29 | 2001 |
| Female | | | | | | |
| Sample Number | 0 | 21 | 35 | 19 | 0 | 75 |
| Percent | 0.0 | 9.8 | 16.4 | 8.9 | 0.0 | 35.2 |
| Std. Error | 0.0 | 2.0 | 2.5 | 2.0 | 0.0 | 3.3 |
| Number | 0 | 305 | 508 | 276 | 0 | 1088 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 55 | 111 | 46 | 2 | 214 |
| Percent | 0.0 | 25.7 | 51.9 | 21.5 | 0.9 | 100.0 |
| Std. Error | 0.0 | 3.0 | 3.4 | 2.8 | 0.6 | — |
| Number | 0 | 798 | 1610 | 667 | 29 | 3103 |

Appendix Table 14. District 107 commercial purse seine catch of chum salmon; length (mm) by sex, age, and sampling period, 1983.

| | 02 | 03 | Age Group 04 | 05 |
|------------------|----------------------|-----|-----------------|-----|
| Combined Periods | (8/07/83 to 9/03/83) | | | |
| Males | | | | |
| Ave. Length | 569 | 635 | 646 | 630 |
| Std. Error | 7.4 | 5.8 | 7.5 | 0.0 |
| Samp. Size | 33 | 76 | 27 | 2 |
| Females | | | | |
| Ave. Length | 572 | 627 | 649 | |
| Std. Error | 7.6 | 6.8 | 10.3 | |
| Samp. Size | 21 | 35 | 19 | |

Appendix Table 15. District 109 commercial purse seine catch of chum salmon; age and sex composition by sampling period, 1983.

Period Number 1 (7/24/83 to 7/30/83)

| | 01 | 02 | Age Group 03 | 04 | 05 | Total |
|-----------------------|-----|------|-----------------|------|-----|-------|
| Male | | | | | | |
| Sample Number | 0 | 27 | 44 | 17 | 1 | 89 |
| Percent | 0.0 | 11.1 | 18.1 | 7.0 | 0.4 | 36.6 |
| Std. Error | 0.0 | 2.0 | 2.5 | 1.6 | 0.4 | 3.1 |
| Number | 0 | 565 | 921 | 356 | 21 | 1864 |
| Female | | | | | | |
| Sample Number | 0 | 26 | 97 | 30 | 1 | 154 |
| Percent | 0.0 | 10.7 | 39.9 | 12.3 | 0.4 | 63.4 |
| Std. Error | 0.0 | 2.0 | 3.1 | 2.1 | 0.4 | 3.1 |
| Number | 0 | 544 | 2031 | 628 | 21 | 3224 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 53 | 141 | 47 | 2 | 243 |
| Percent | 0.0 | 21.8 | 58.0 | 19.3 | 0.8 | 100.0 |
| Std. Error | 0.0 | 2.7 | 3.2 | 2.5 | 0.6 | — |
| Number | 0 | 1110 | 2952 | 984 | 42 | 5088 |

Period Number 2 (8/07/83 to 8/20/83)

| | 01 | 02 | Age Group 03 | 04 | 05 | Total |
|-----------------------|-----|------|-----------------|-------|-----|-------|
| Male | | | | | | |
| Sample Number | 0 | 40 | 94 | 74 | 0 | 208 |
| Percent | 0.0 | 11.6 | 27.3 | 21.5 | 0.0 | 60.5 |
| Std. Error | 0.0 | 1.7 | 2.4 | 2.2 | 0.0 | 2.6 |
| Number | 0 | 3625 | 8520 | 6707 | 0 | 18852 |
| Female | | | | | | |
| Sample Number | 0 | 13 | 55 | 67 | 1 | 136 |
| Percent | 0.0 | 3.8 | 16.0 | 19.5 | 0.3 | 39.5 |
| Std. Error | 0.0 | 1.0 | 2.0 | 2.1 | 0.3 | 2.6 |
| Number | 0 | 1178 | 4985 | 6073 | 91 | 12327 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 53 | 149 | 141 | 1 | 344 |
| Percent | 0.0 | 15.4 | 43.3 | 41.0 | 0.3 | 100.0 |
| Std. Error | 0.0 | 1.9 | 2.7 | 2.7 | 0.3 | — |
| Number | 0 | 4804 | 13505 | 12780 | 91 | 31179 |

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Appendix Table 15. District 109 commercial purse seine catch of chum salmon; age and sex composition by sampling period, 1983 (continued).

Period Number 3 (8/21/83 to 9/03/83)

| | 01 | 02 | 03 | Age Group 04 | 05 | Total |
|-----------------------|-----|------|------|-----------------|-----|-------|
| Male | | | | | | |
| Sample Number | 0 | 25 | 157 | 34 | 0 | 216 |
| Percent | 0.0 | 6.6 | 41.3 | 8.9 | 0.0 | 56.8 |
| Std. Error | 0.0 | 1.3 | 2.5 | 1.5 | 0.0 | 2.5 |
| Number | 0 | 259 | 1628 | 353 | 0 | 2240 |
| Female | | | | | | |
| Sample Number | 0 | 16 | 120 | 26 | 2 | 164 |
| Percent | 0.0 | 4.2 | 31.6 | 6.8 | 0.5 | 43.2 |
| Std. Error | 0.0 | 1.0 | 2.4 | 1.3 | 0.4 | 2.5 |
| Number | 0 | 166 | 1245 | 270 | 21 | 1701 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 41 | 277 | 60 | 2 | 380 |
| Percent | 0.0 | 10.8 | 72.9 | 15.8 | 0.5 | 100.0 |
| Std. Error | 0.0 | 1.6 | 2.3 | 1.9 | 0.4 | — |
| Number | 0 | 425 | 2873 | 622 | 21 | 3941 |

Combined Periods (Percentages are weighted by period catches)

| | 01 | 02 | 03 | Age Group 04 | 05 | Total |
|-----------------------|-----|------|-------|-----------------|-----|-------|
| Male | | | | | | |
| Sample Number | 0 | 92 | 295 | 125 | 1 | 513 |
| Percent | 0.0 | 11.1 | 27.5 | 18.4 | 0.1 | 57.1 |
| Std. Error | 0.0 | 1.4 | 1.9 | 1.7 | 0.1 | 2.1 |
| Number | 0 | 4450 | 11069 | 7416 | 21 | 22956 |
| Female | | | | | | |
| Sample Number | 0 | 55 | 272 | 123 | 4 | 454 |
| Percent | 0.0 | 4.7 | 20.5 | 17.3 | 0.3 | 42.9 |
| Std. Error | 0.0 | 0.8 | 1.6 | 1.7 | 0.2 | 2.1 |
| Number | 0 | 1889 | 8261 | 6970 | 132 | 17252 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 147 | 567 | 248 | 5 | 967 |
| Percent | 0.0 | 15.8 | 48.1 | 35.8 | 0.4 | 100.0 |
| Std. Error | 0.0 | 1.6 | 2.1 | 2.1 | 0.2 | — |
| Number | 0 | 6339 | 19330 | 14386 | 153 | 40208 |

Appendix Table 16. District 109 commercial purse seine catch of chum salmon; length (mm) by sex, age, and sampling period, 1983.

| | 02 | 03 | Age Group 04 | 05 |
|---|------|-----|-----------------|-----|
| Period Number 1 (7/24/83 to 7/30/83) | | | | |
| Males | | | | |
| Ave. Length | 564 | 617 | 633 | 681 |
| Std. Error | 6.7 | 7.0 | 12.1 | --- |
| Samp. Size | 27 | 44 | 17 | 1 |
| Females | | | | |
| Ave. Length | 573 | 611 | 629 | 605 |
| Std. Error | 7.6 | 4.4 | 6.0 | --- |
| Samp. Size | 26 | 97 | 30 | 1 |
| Period Number 2 (8/07/83 to 8/20/83) | | | | |
| Males | | | | |
| Ave. Length | 568 | 618 | 645 | |
| Std. Error | 5.7 | 4.1 | 3.6 | |
| Samp. Size | 40 | 94 | 74 | |
| Females | | | | |
| Ave. Length | 569 | 613 | 639 | 642 |
| Std. Error | 13.5 | 4.6 | 3.7 | --- |
| Samp. Size | 13 | 55 | 67 | 1 |

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Appendix Table 16. District 109 commercial purse seine catch of chum salmon; length (mm) by sex, age, and sampling period, 1983 (continued).

| Period Number | 3 | Age Group | | | | |
|--------------------------------------|---|-----------|-----|-----|-----|--|
| | | 02 | 03 | 04 | 05 | |
| Period Number 3 (8/21/83 to 9/03/83) | | | | | | |
| Males | | | | | | |
| Ave. Length | | 570 | 627 | 666 | | |
| Std. Error | | 8.1 | 3.3 | 7.3 | | |
| Samp. Size | | 25 | 155 | 34 | | |
| Females | | | | | | |
| Ave. Length | | 578 | 619 | 641 | 637 | |
| Std. Error | | 7.6 | 2.8 | 6.1 | 2.5 | |
| Samp. Size | | 16 | 120 | 26 | 2 | |

Appendix Table 17. District 110 commercial purse seine catch of chum salmon; age and sex composition by sampling period, 1983.

Combined Periods (7/24/83 to 8/06/83)

| | 01 | 02 | 03 | Age Group 04 | 05 | Total |
|-----------------------|-----|------|------|-----------------|-----|-------|
| Male | | | | | | |
| Sample Number | 0 | 7 | 26 | 4 | 0 | 37 |
| Percent | 0.0 | 13.0 | 48.1 | 7.4 | 0.0 | 74.0 |
| Std. Error | 0.0 | 4.6 | 6.9 | 3.6 | 0.0 | 6.3 |
| Number | 0 | 227 | 842 | 130 | 0 | 1198 |
| Female | | | | | | |
| Sample Number | 0 | 0 | 7 | 6 | 0 | 13 |
| Percent | 0.0 | 0.0 | 13.0 | 11.1 | 0.0 | 26.0 |
| Std. Error | 0.0 | 0.0 | 4.6 | 4.3 | 0.0 | 6.3 |
| Number | 0 | 0 | 227 | 194 | 0 | 421 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 7 | 37 | 10 | 0 | 54 |
| Percent | 0.0 | 13.0 | 68.5 | 18.5 | 0.0 | 100.0 |
| Std. Error | 0.0 | 4.6 | 6.4 | 5.3 | 0.0 | — |
| Number | 0 | 227 | 1198 | 324 | 0 | 1749 |

Appendix Table 18. District 110 commercial purse seine catch of chum salmon; length (mm) by sex, age, and sampling period, 1983.

| | 02 | 03 | Age Group 04 | 05 |
|--|------|------|-----------------|----|
| Combined Periods (7/24/83 to 8/06/83) | | | | |
| Males | | | | |
| Ave. Length | 587 | 608 | 621 | |
| Std. Error | 16.2 | 7.0 | 17.1 | |
| Samp. Size | 7 | 26 | 4 | |
| Females | | | | |
| Ave. Length | | 623 | 626 | |
| Std. Error | | 13.1 | 11.2 | |
| Samp. Size | | 7 | 6 | |

Appendix Table 19. District 112 commercial purse seine catch of chum salmon;
age and sex composition by sampling period, 1983.

Period Number 1 (7/03/83 to 7/16/83)

| | 01 | 02 | Age Group 03 | 04 | 05 | Total |
|-----------------------|-----|-----|-----------------|------|-----|-------|
| Male | | | | | | |
| Sample Number | 0 | 13 | 359 | 64 | 3 | 439 |
| Percent | 0.0 | 1.5 | 42.6 | 7.6 | 0.4 | 56.9 |
| Std. Error | 0.0 | 0.4 | 1.7 | 0.9 | 0.2 | 1.8 |
| Number | 0 | 314 | 8663 | 1544 | 72 | 10594 |
| Female | | | | | | |
| Sample Number | 0 | 10 | 254 | 68 | 1 | 333 |
| Percent | 0.0 | 1.2 | 30.2 | 8.1 | 0.1 | 43.1 |
| Std. Error | 0.0 | 0.4 | 1.6 | 0.9 | 0.1 | 1.8 |
| Number | 0 | 241 | 6129 | 1641 | 24 | 8036 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 27 | 670 | 140 | 5 | 842 |
| Percent | 0.0 | 3.2 | 79.6 | 16.6 | 0.6 | 100.0 |
| Std. Error | 0.0 | 0.6 | 1.4 | 1.3 | 0.3 | — |
| Number | 0 | 652 | 16168 | 3378 | 121 | 20319 |

Period Number 2 (7/17/83 to 7/23/83)

| | 01 | 02 | Age Group 03 | 04 | 05 | Total |
|-----------------------|-----|------|-----------------|------|-----|-------|
| Male | | | | | | |
| Sample Number | 0 | 27 | 319 | 46 | 0 | 392 |
| Percent | 0.0 | 3.2 | 37.8 | 5.5 | 0.0 | 46.8 |
| Std. Error | 0.0 | 0.6 | 1.7 | 0.8 | 0.0 | 1.7 |
| Number | 0 | 1959 | 23140 | 3337 | 0 | 28436 |
| Female | | | | | | |
| Sample Number | 0 | 27 | 364 | 54 | 0 | 445 |
| Percent | 0.0 | 3.2 | 43.2 | 6.4 | 0.0 | 53.2 |
| Std. Error | 0.0 | 0.6 | 1.7 | 0.8 | 0.0 | 1.7 |
| Number | 0 | 1959 | 26404 | 3917 | 0 | 32280 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 54 | 689 | 100 | 0 | 843 |
| Percent | 0.0 | 6.4 | 81.7 | 11.9 | 0.0 | 100.0 |
| Std. Error | 0.0 | 0.8 | 1.3 | 1.1 | 0.0 | — |
| Number | 0 | 3917 | 49980 | 7254 | 0 | 61151 |

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Appendix Table 19. District 112 commercial purse seine catch of chum salmon; age and sex composition by sampling period, 1983 (continued).

Period Number 3 (7/24/83 to 7/30/83)

| | 01 | 02 | 03 | Age Group 04 | 05 | Total |
|-----------------------|-----|------|-------|-----------------|-----|-------|
| Male | | | | | | |
| Sample Number | 0 | 40 | 238 | 37 | 2 | 317 |
| Percent | 0.0 | 6.8 | 40.5 | 6.3 | 0.3 | 54.8 |
| Std. Error | 0.0 | 1.0 | 2.0 | 1.0 | 0.2 | 2.1 |
| Number | 0 | 2384 | 14186 | 2205 | 119 | 18895 |
| Female | | | | | | |
| Sample Number | 0 | 20 | 199 | 42 | 0 | 261 |
| Percent | 0.0 | 3.4 | 33.8 | 7.1 | 0.0 | 45.2 |
| Std. Error | 0.0 | 0.7 | 2.0 | 1.1 | 0.0 | 2.1 |
| Number | 0 | 1192 | 11861 | 2503 | 0 | 15557 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 62 | 444 | 80 | 2 | 588 |
| Percent | 0.0 | 10.5 | 75.5 | 13.6 | 0.3 | 100.0 |
| Std. Error | 0.0 | 1.3 | 1.8 | 1.5 | 0.2 | — |
| Number | 0 | 3696 | 26465 | 4768 | 119 | 35048 |

Period Number 4 (7/31/83 to 9/03/83)

| | 01 | 02 | 03 | Age Group 04 | 05 | Total |
|-----------------------|-----|------|-------|-----------------|-----|-------|
| Male | | | | | | |
| Sample Number | 0 | 50 | 165 | 39 | 1 | 255 |
| Percent | 0.0 | 9.9 | 32.5 | 7.7 | 0.2 | 50.4 |
| Std. Error | 0.0 | 1.3 | 2.1 | 1.2 | 0.2 | 2.2 |
| Number | 0 | 3579 | 11811 | 2792 | 72 | 18253 |
| Female | | | | | | |
| Sample Number | 0 | 32 | 179 | 40 | 0 | 251 |
| Percent | 0.0 | 6.3 | 35.3 | 7.9 | 0.0 | 49.6 |
| Std. Error | 0.0 | 1.1 | 2.1 | 1.2 | 0.0 | 2.2 |
| Number | 0 | 2291 | 12813 | 2863 | 0 | 17967 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 82 | 345 | 79 | 1 | 507 |
| Percent | 0.0 | 16.2 | 68.0 | 15.6 | 0.2 | 100.0 |
| Std. Error | 0.0 | 1.6 | 2.1 | 1.6 | 0.2 | — |
| Number | 0 | 5870 | 24696 | 5655 | 72 | 36292 |

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Appendix Table 19. District 112 commercial purse seine catch of chum salmon;
age and sex composition by sampling period, 1983 (continued).

Combined Periods (Percentages are weighted by period catches)

| | 01 | 02 | 03 | Age Group 04 | 05 | Total |
|-----------------------|-----|-------|--------|-----------------|-----|--------|
| Male | | | | | | |
| Sample Number | 0 | 130 | 1081 | 186 | 6 | 1403 |
| Percent | 0.0 | 5.4 | 37.8 | 6.5 | 0.2 | 50.9 |
| Std. Error | 0.0 | 0.5 | 1.0 | 0.5 | 0.1 | 1.0 |
| Number | 0 | 8236 | 57801 | 9878 | 263 | 76178 |
| Female | | | | | | |
| Sample Number | 0 | 89 | 996 | 204 | 1 | 1290 |
| Percent | 0.0 | 3.7 | 37.4 | 7.1 | 0.0 | 49.1 |
| Std. Error | 0.0 | 0.4 | 1.0 | 0.5 | 0.0 | 1.0 |
| Number | 0 | 5683 | 57209 | 10925 | 24 | 73840 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 225 | 2148 | 399 | 8 | 2780 |
| Percent | 0.0 | 9.2 | 76.8 | 13.8 | 0.2 | 100.0 |
| Std. Error | 0.0 | 0.6 | 0.9 | 0.7 | 0.1 | — |
| Number | 0 | 14134 | 117309 | 21056 | 311 | 152810 |

Appendix Table 20. District 112 commercial purse seine catch of chum salmon; length (mm) by sex, age, and sampling period, 1983.

| | | | Age Group | |
|---|------|-----|-----------|------|
| | 02 | 03 | 04 | 05 |
| Period Number 1 (7/03/83 to 7/16/83) | | | | |
| Males | | | | |
| Ave. Length | 608 | 654 | 695 | 693 |
| Std. Error | 21.5 | 2.4 | 5.9 | 54.1 |
| Samp. Size | 13 | 359 | 64 | 3 |
| Females | | | | |
| Ave. Length | 559 | 630 | 654 | 707 |
| Std. Error | 9.6 | 2.2 | 3.9 | — |
| Samp. Size | 10 | 254 | 68 | 1 |
| Period Number 2 (7/17/83 to 7/23/83) | | | | |
| Males | | | | |
| Ave. Length | 567 | 628 | 654 | |
| Std. Error | 9.0 | 2.1 | 5.7 | |
| Samp. Size | 27 | 319 | 46 | |
| Females | | | | |
| Ave. Length | 565 | 614 | 632 | |
| Std. Error | 9.1 | 1.6 | 4.3 | |
| Samp. Size | 27 | 364 | 54 | |

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Appendix Table 20. District 112 commercial purse seine catch of chum salmon; length (mm) by sex, age, and sampling period, 1983 (continued).

| | 02 | 03 | Age Group 04 | 05 |
|--|----|----|-----------------|----|
|--|----|----|-----------------|----|

Period Number 3 (7/24/83 to 7/30/83)

Males

| | | | | |
|-------------|-----|-----|-----|------|
| Ave. Length | 567 | 624 | 656 | 674 |
| Std. Error | 6.4 | 2.7 | 6.6 | 11.0 |
| Samp. Size | 40 | 238 | 37 | 2 |

Females

| | | | | |
|-------------|-----|-----|-----|--|
| Ave. Length | 570 | 607 | 633 | |
| Std. Error | 8.3 | 2.2 | 5.3 | |
| Samp. Size | 20 | 199 | 42 | |

Period Number 4 (7/31/83 to 9/03/83)

Males

| | | | | |
|-------------|-----|-----|-----|-----|
| Ave. Length | 556 | 625 | 646 | 705 |
| Std. Error | 6.0 | 3.2 | 5.8 | --- |
| Samp. Size | 50 | 165 | 39 | 1 |

Females

| | | | | |
|-------------|-----|-----|-----|--|
| Ave. Length | 567 | 613 | 641 | |
| Std. Error | 6.1 | 2.4 | 4.6 | |
| Samp. Size | 32 | 179 | 40 | |

Appendix Table 21. District 113 commercial purse seine catch of chum salmon; age and sex composition by sampling period, 1983.

Period Number 1 (7/17/83 to 7/23/83)

| | 01 | 02 | 03 | Age Group 04 | 05 | Total |
|-----------------------|-----|-----|------|-----------------|-----|-------|
| Male | | | | | | |
| Sample Number | 0 | 4 | 91 | 26 | 0 | 121 |
| Percent | 0.0 | 1.6 | 35.3 | 10.1 | 0.0 | 46.9 |
| Std. Error | 0.0 | 0.8 | 3.0 | 1.9 | 0.0 | 3.1 |
| Number | 0 | 136 | 3085 | 881 | 0 | 4102 |
| Female | | | | | | |
| Sample Number | 0 | 12 | 95 | 30 | 0 | 137 |
| Percent | 0.0 | 4.7 | 36.8 | 11.6 | 0.0 | 53.1 |
| Std. Error | 0.0 | 1.3 | 3.0 | 2.0 | 0.0 | 3.1 |
| Number | 0 | 407 | 3220 | 1017 | 0 | 4644 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 16 | 186 | 56 | 0 | 258 |
| Percent | 0.0 | 6.2 | 72.1 | 21.7 | 0.0 | 100.0 |
| Std. Error | 0.0 | 1.5 | 2.8 | 2.6 | 0.0 | — |
| Number | 0 | 542 | 6305 | 1898 | 0 | 8746 |

Period Number 2 (7/24/83 to 7/30/83)

| | 01 | 02 | 03 | Age Group 04 | 05 | Total |
|-----------------------|-----|------|-------|-----------------|-----|-------|
| Male | | | | | | |
| Sample Number | 0 | 18 | 243 | 55 | 0 | 316 |
| Percent | 0.0 | 3.2 | 43.6 | 9.9 | 0.0 | 56.9 |
| Std. Error | 0.0 | 0.7 | 2.1 | 1.3 | 0.0 | 2.1 |
| Number | 0 | 593 | 8004 | 1812 | 0 | 10409 |
| Female | | | | | | |
| Sample Number | 0 | 24 | 167 | 48 | 0 | 239 |
| Percent | 0.0 | 4.3 | 30.0 | 8.6 | 0.0 | 43.1 |
| Std. Error | 0.0 | 0.9 | 1.9 | 1.2 | 0.0 | 2.1 |
| Number | 0 | 791 | 5501 | 1581 | 0 | 7872 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 42 | 412 | 103 | 0 | 557 |
| Percent | 0.0 | 7.5 | 74.0 | 18.5 | 0.0 | 100.0 |
| Std. Error | 0.0 | 1.1 | 1.9 | 1.6 | 0.0 | — |
| Number | 0 | 1383 | 13571 | 3393 | 0 | 18347 |

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Appendix Table 21. District 113 commercial purse seine catch of chum salmon; age and sex composition by sampling period, 1983 (continued).

Period Number 3 (7/31/83 to 8/27/83)

| | 01 | 02 | 03 | Age Group 04 | 05 | Total |
|-----------------------|-----|------|-------|-----------------|-----|-------|
| Male | | | | | | |
| Sample Number | 0 | 19 | 48 | 7 | 0 | 74 |
| Percent | 0.0 | 10.6 | 26.8 | 3.9 | 0.0 | 42.0 |
| Std. Error | 0.0 | 2.3 | 3.3 | 1.5 | 0.0 | 3.7 |
| Number | 0 | 4031 | 10184 | 1485 | 0 | 15701 |
| Female | | | | | | |
| Sample Number | 0 | 22 | 64 | 16 | 0 | 102 |
| Percent | 0.0 | 12.3 | 35.8 | 8.9 | 0.0 | 58.0 |
| Std. Error | 0.0 | 2.5 | 3.6 | 2.1 | 0.0 | 3.7 |
| Number | 0 | 4668 | 13579 | 3395 | 0 | 21642 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 41 | 115 | 23 | 0 | 179 |
| Percent | 0.0 | 22.9 | 64.2 | 12.8 | 0.0 | 100.0 |
| Std. Error | 0.0 | 3.1 | 3.6 | 2.5 | 0.0 | — |
| Number | 0 | 8699 | 24400 | 4880 | 0 | 37979 |

Combined Periods (Percentages are weighted by period catches)

| | 01 | 02 | 03 | Age Group 04 | 05 | Total |
|-----------------------|-----|-------|-------|-----------------|-----|-------|
| Male | | | | | | |
| Sample Number | 0 | 41 | 382 | 88 | 0 | 511 |
| Percent | 0.0 | 7.3 | 32.7 | 6.4 | 0.0 | 46.9 |
| Std. Error | 0.0 | 1.4 | 2.1 | 1.0 | 0.0 | 2.3 |
| Number | 0 | 4760 | 21273 | 4178 | 0 | 30211 |
| Female | | | | | | |
| Sample Number | 0 | 58 | 326 | 94 | 0 | 478 |
| Percent | 0.0 | 9.0 | 34.3 | 9.2 | 0.0 | 53.1 |
| Std. Error | 0.0 | 1.5 | 2.2 | 1.3 | 0.0 | 2.3 |
| Number | 0 | 5865 | 22300 | 5993 | 0 | 34158 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 99 | 713 | 182 | 0 | 994 |
| Percent | 0.0 | 16.3 | 68.0 | 15.6 | 0.0 | 100.0 |
| Std. Error | 0.0 | 1.9 | 2.2 | 1.6 | 0.0 | — |
| Number | 0 | 10625 | 44276 | 10171 | 0 | 65072 |

Appendix Table 22. District 113 commercial purse seine catch of chum salmon; length (mm) by sex, age, and sampling period, 1983.

| | 02 | 03 | Age Group 04 | 05 |
|-----------------|----------------------|-----|-----------------|----|
| Period Number 1 | (7/17/83 to 7/23/83) | | | |
| Males | | | | |
| Ave. Length | 567 | 667 | 683 | |
| Std. Error | 37.2 | 4.7 | 6.8 | |
| Samp. Size | 4 | 91 | 26 | |
| Females | | | | |
| Ave. Length | 588 | 640 | 655 | |
| Std. Error | 12.7 | 4.4 | 6.1 | |
| Samp. Size | 12 | 95 | 30 | |
| Period Number 2 | (7/24/83 to 7/30/83) | | | |
| Males | | | | |
| Ave. Length | 580 | 648 | 646 | |
| Std. Error | 14.4 | 2.8 | 6.1 | |
| Samp. Size | 18 | 243 | 55 | |
| Females | | | | |
| Ave. Length | 569 | 630 | 647 | |
| Std. Error | 8.4 | 2.5 | 4.5 | |
| Samp. Size | 24 | 167 | 48 | |

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Appendix Table 22. District 113 commercial purse seine catch of chum salmon; length (mm) by sex, age, and sampling period, 1983 (continued).

| | 02 | 03 | Age Group 04 | 05 |
|--------------------------------------|------|-----|-----------------|----|
| Period Number 3 (7/31/83 to 8/27/83) | | | | |
| Males | | | | |
| Ave. Length | 576 | 648 | 665 | |
| Std. Error | 9.3 | 7.0 | 8.2 | |
| Samp. Size | 19 | 48 | 7 | |
| Females | | | | |
| Ave. Length | 605 | 654 | 651 | |
| Std. Error | 10.1 | 4.6 | 8.2 | |
| Samp. Size | 22 | 64 | 16 | |

Appendix Table 23. District 114 commercial purse seine catch of chum salmon;
age and sex composition by sampling period, 1983.

Period Number 1 (7/17/83 to 7/23/83)

| | 01 | 02 | 03 | Age Group 04 | 05 | Total |
|-----------------------|-----|-----|------|-----------------|-----|-------|
| Male | | | | | | |
| Sample Number | 0 | 8 | 289 | 26 | 5 | 328 |
| Percent | 0.0 | 1.2 | 44.5 | 4.0 | 0.8 | 51.7 |
| Std. Error | 0.0 | 0.4 | 2.0 | 0.8 | 0.3 | 2.0 |
| Number | 0 | 57 | 2076 | 187 | 36 | 2356 |
| Female | | | | | | |
| Sample Number | 0 | 6 | 280 | 20 | 0 | 306 |
| Percent | 0.0 | 0.9 | 43.1 | 3.1 | 0.0 | 48.3 |
| Std. Error | 0.0 | 0.4 | 1.9 | 0.7 | 0.0 | 2.0 |
| Number | 0 | 43 | 2011 | 144 | 0 | 2198 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 16 | 580 | 48 | 5 | 649 |
| Percent | 0.0 | 2.5 | 89.4 | 7.4 | 0.8 | 100.0 |
| Std. Error | 0.0 | 0.6 | 1.2 | 1.0 | 0.3 | — |
| Number | 0 | 115 | 4166 | 345 | 36 | 4662 |

Period Number 2 (7/24/83 to 8/06/83)

| | 01 | 02 | 03 | Age Group 04 | 05 | Total |
|-----------------------|-----|-----|-------|-----------------|-----|-------|
| Male | | | | | | |
| Sample Number | 0 | 8 | 110 | 18 | 2 | 138 |
| Percent | 0.0 | 2.7 | 37.2 | 6.1 | 0.7 | 47.3 |
| Std. Error | 0.0 | 0.9 | 2.8 | 1.4 | 0.5 | 2.9 |
| Number | 0 | 547 | 7525 | 1231 | 137 | 9440 |
| Female | | | | | | |
| Sample Number | 0 | 5 | 136 | 13 | 0 | 154 |
| Percent | 0.0 | 1.7 | 45.9 | 4.4 | 0.0 | 52.7 |
| Std. Error | 0.0 | 0.8 | 2.9 | 1.2 | 0.0 | 2.9 |
| Number | 0 | 342 | 9303 | 889 | 0 | 10534 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 13 | 250 | 31 | 2 | 296 |
| Percent | 0.0 | 4.4 | 84.5 | 10.5 | 0.7 | 100.0 |
| Std. Error | 0.0 | 1.2 | 2.1 | 1.8 | 0.5 | — |
| Number | 0 | 889 | 17101 | 2121 | 137 | 20248 |

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Appendix Table 23. District 114 commercial purse seine catch of chum salmon; age and sex composition by sampling period, 1983 (continued).

Period Number 3 (9/11/83 to 9/17/83)

| | 01 | 02 | 03 | Age Group 04 | 05 | Total |
|-----------------------|-----|-----|------|-----------------|-----|-------|
| Male | | | | | | |
| Sample Number | 0 | 4 | 214 | 20 | 0 | 238 |
| Percent | 0.0 | 0.9 | 46.4 | 4.3 | 0.0 | 52.1 |
| Std. Error | 0.0 | 0.4 | 2.3 | 0.9 | 0.0 | 2.3 |
| Number | 0 | 92 | 4948 | 462 | 0 | 5503 |
| Female | | | | | | |
| Sample Number | 0 | 1 | 197 | 21 | 0 | 219 |
| Percent | 0.0 | 0.2 | 42.7 | 4.6 | 0.0 | 47.9 |
| Std. Error | 0.0 | 0.2 | 2.3 | 1.0 | 0.0 | 2.3 |
| Number | 0 | 23 | 4555 | 486 | 0 | 5064 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 5 | 415 | 41 | 0 | 461 |
| Percent | 0.0 | 1.1 | 90.0 | 8.9 | 0.0 | 100.0 |
| Std. Error | 0.0 | 0.5 | 1.4 | 1.3 | 0.0 | — |
| Number | 0 | 116 | 9596 | 948 | 0 | 10660 |

Combined Periods (Percentages are weighted by period catches)

| | 01 | 02 | 03 | Age Group 04 | 05 | Total |
|-----------------------|-----|------|-------|-----------------|-----|-------|
| Male | | | | | | |
| Sample Number | 0 | 20 | 613 | 64 | 7 | 704 |
| Percent | 0.0 | 2.0 | 40.9 | 5.3 | 0.5 | 49.3 |
| Std. Error | 0.0 | 0.6 | 1.8 | 0.8 | 0.3 | 1.8 |
| Number | 0 | 697 | 14549 | 1881 | 173 | 17300 |
| Female | | | | | | |
| Sample Number | 0 | 12 | 613 | 54 | 0 | 679 |
| Percent | 0.0 | 1.1 | 44.6 | 4.3 | 0.0 | 50.7 |
| Std. Error | 0.0 | 0.4 | 1.8 | 0.7 | 0.0 | 1.8 |
| Number | 0 | 408 | 15870 | 1519 | 0 | 17797 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 34 | 1245 | 120 | 7 | 1406 |
| Percent | 0.0 | 3.1 | 86.8 | 9.6 | 0.5 | 100.0 |
| Std. Error | 0.0 | 0.7 | 1.3 | 1.1 | 0.3 | — |
| Number | 0 | 1120 | 30864 | 3413 | 173 | 35570 |

Appendix Table 24. District 114 commercial purse seine catch of chum salmon; length (mm) by sex, age, and sampling period, 1983.

| | 02 | 03 | Age Group 04 | 05 |
|-----------------|----------------------|-----|-----------------|------|
| Period Number 1 | (7/17/83 to 8/06/83) | | | |
| Males | | | | |
| Ave. Length | 569 | 631 | 659 | 681 |
| Std. Error | 15.6 | 2.1 | 7.1 | 9.1 |
| Samp. Size | 8 | 289 | 26 | 5 |
| Females | | | | |
| Ave. Length | 536 | 610 | 637 | |
| Std. Error | 4.8 | 1.9 | 6.5 | |
| Samp. Size | 6 | 280 | 20 | |
| Period Number 2 | (7/24/83 to 8/06/83) | | | |
| Males | | | | |
| Ave. Length | 561 | 623 | 646 | 628 |
| Std. Error | 16.3 | 3.5 | 6.1 | 25.5 |
| Samp. Size | 8 | 110 | 18 | 2 |
| Females | | | | |
| Ave. Length | 574 | 605 | 636 | |
| Std. Error | 16.1 | 2.4 | 8.8 | |
| Samp. Size | 5 | 136 | 13 | |

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Appendix Table 24. District 114 commercial purse seine catch of chum salmon; length (mm) by sex, age, and sampling period, 1983 (continued).

| Period Number | 3 | Age Group | | | | |
|----------------|---|-----------|-----|-----|----|--|
| | | 02 | 03 | 04 | 05 | |
| Males | | | | | | |
| | | | | | | |
| Ave. Length | | 576 | 660 | 698 | | |
| Std. Error | | 19.0 | 2.1 | 6.9 | | |
| Samp. Size | | 4 | 214 | 20 | | |
| Females | | | | | | |
| | | | | | | |
| Ave. Length | | 595 | 647 | 678 | | |
| Std. Error | | — | 2.0 | 5.2 | | |
| Samp. Size | | 1 | 197 | 21 | | |

Appendix Table 25. District 101 commercial gillnet catch of chum salmon; age and sex composition by sampling period, 1983.

| | 01 | 02 | 03 | Age Group 04 | 05 | Total |
|-----------------------|----------------------|------|-------|-----------------|-----|-------|
| Period Number 1 | (6/12/83 to 7/02/83) | | | | | |
| Male | | | | | | |
| Sample Number | 0 | 6 | 100 | 42 | 1 | 149 |
| Percent | 0.0 | 1.2 | 19.4 | 8.1 | 0.2 | 53.4 |
| Std. Error | 0.0 | 0.5 | 1.7 | 1.2 | 0.2 | 3.0 |
| Number | 0 | 336 | 5593 | 2349 | 56 | 8334 |
| Female | | | | | | |
| Sample Number | 0 | 4 | 95 | 30 | 1 | 130 |
| Percent | 0.0 | 0.8 | 18.4 | 5.8 | 0.2 | 46.6 |
| Std. Error | 0.0 | 0.4 | 1.7 | 1.0 | 0.2 | 3.0 |
| Number | 0 | 224 | 5314 | 1678 | 56 | 7271 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 30 | 356 | 127 | 3 | 516 |
| Percent | 0.0 | 5.8 | 69.0 | 24.6 | 0.6 | 100.0 |
| Std. Error | 0.0 | 1.0 | 2.0 | 1.9 | 0.3 | — |
| Number | 0 | 1678 | 19913 | 7104 | 168 | 28862 |
| Period Number 2 | (7/03/83 to 7/16/83) | | | | | |
| Male | | | | | | |
| Sample Number | 0 | 4 | 32 | 4 | 0 | 40 |
| Percent | 0.0 | 0.8 | 6.3 | 0.8 | 0.0 | 22.9 |
| Std. Error | 0.0 | 0.4 | 1.1 | 0.4 | 0.0 | 3.2 |
| Number | 0 | 150 | 1198 | 150 | 0 | 1497 |
| Female | | | | | | |
| Sample Number | 0 | 13 | 96 | 26 | 0 | 135 |
| Percent | 0.0 | 2.5 | 18.8 | 5.1 | 0.0 | 77.1 |
| Std. Error | 0.0 | 0.7 | 1.7 | 1.0 | 0.0 | 3.2 |
| Number | 0 | 487 | 3594 | 973 | 0 | 5054 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 73 | 357 | 80 | 0 | 510 |
| Percent | 0.0 | 14.3 | 70.0 | 15.7 | 0.0 | 100.0 |
| Std. Error | 0.0 | 1.6 | 2.0 | 1.6 | 0.0 | — |
| Number | 0 | 2733 | 13365 | 2995 | 0 | 19093 |

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Appendix Table 25. District 101 commercial gillnet catch of chum salmon; age and sex composition by sampling period, 1983 (continued).

| | 01 | 02 | 03 | Age Group 04 | 05 | Total |
|----------------|-----|----------------------|-------|-----------------|-----|-------|
| Period Number | 3 | (7/17/83 to 7/23/83) | | | | |
| Male | | | | | | |
| Sample Number | 0 | 74 | 163 | 30 | 1 | 268 |
| Percent | 0.0 | 11.4 | 25.1 | 4.6 | 0.2 | 41.6 |
| Std. Error | 0.0 | 1.2 | 1.7 | 0.8 | 0.2 | 1.9 |
| Number | 0 | 1977 | 4356 | 802 | 27 | 7161 |
| Female | | | | | | |
| Sample Number | 0 | 84 | 241 | 52 | 0 | 377 |
| Percent | 0.0 | 12.9 | 37.1 | 8.0 | 0.0 | 58.4 |
| Std. Error | 0.0 | 1.3 | 1.9 | 1.1 | 0.0 | 1.9 |
| Number | 0 | 2245 | 6440 | 1390 | 0 | 10074 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 159 | 408 | 82 | 1 | 650 |
| Percent | 0.0 | 24.5 | 62.8 | 12.6 | 0.2 | 100.0 |
| Std. Error | 0.0 | 1.7 | 1.9 | 1.3 | 0.2 | — |
| Number | 0 | 4249 | 10902 | 2191 | 27 | 17369 |
| Period Number | 4 | (7/24/83 to 7/30/83) | | | | |
| Male | | | | | | |
| Sample Number | 0 | 40 | 95 | 7 | 0 | 142 |
| Percent | 0.0 | 10.9 | 25.9 | 1.9 | 0.0 | 38.8 |
| Std. Error | 0.0 | 1.6 | 2.3 | 0.7 | 0.0 | 2.6 |
| Number | 0 | 956 | 2270 | 167 | 0 | 3393 |
| Female | | | | | | |
| Sample Number | 0 | 51 | 157 | 16 | 0 | 224 |
| Percent | 0.0 | 13.9 | 42.8 | 4.4 | 0.0 | 61.2 |
| Std. Error | 0.0 | 1.8 | 2.6 | 1.1 | 0.0 | 2.6 |
| Number | 0 | 1219 | 3751 | 382 | 0 | 5352 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 91 | 253 | 23 | 0 | 367 |
| Percent | 0.0 | 24.8 | 68.9 | 6.3 | 0.0 | 100.0 |
| Std. Error | 0.0 | 2.3 | 2.4 | 1.3 | 0.0 | — |
| Number | 0 | 2174 | 6045 | 550 | 0 | 8769 |

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Appendix Table 25. District 101 commercial gillnet catch of chum salmon; age and sex composition by sampling period, 1983 (continued).

| | | | Age Group | | | Total |
|----------------|-----|----------------------|-----------|------|-----|-------|
| | 01 | 02 | 03 | 04 | 05 | |
| Period Number | 5 | (7/31/83 to 8/06/83) | | | | |
| Male | | | | | | |
| Sample Number | 0 | 36 | 52 | 8 | 0 | 96 |
| Percent | 0.0 | 12.2 | 17.6 | 2.7 | 0.0 | 32.5 |
| Std. Error | 0.0 | 1.9 | 2.2 | 0.9 | 0.0 | 2.7 |
| Number | 0 | 1678 | 2423 | 373 | 0 | 4474 |
| Female | | | | | | |
| Sample Number | 0 | 37 | 143 | 19 | 0 | 199 |
| Percent | 0.0 | 12.5 | 48.5 | 6.4 | 0.0 | 67.5 |
| Std. Error | 0.0 | 1.9 | 2.9 | 1.4 | 0.0 | 2.7 |
| Number | 0 | 1724 | 6664 | 885 | 0 | 9273 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 73 | 195 | 27 | 0 | 295 |
| Percent | 0.0 | 24.7 | 66.1 | 9.2 | 0.0 | 100.0 |
| Std. Error | 0.0 | 2.5 | 2.8 | 1.7 | 0.0 | — |
| Number | 0 | 3402 | 9087 | 1258 | 0 | 13747 |
| Period Number | 6 | (8/07/83 to 8/13/83) | | | | |
| Male | | | | | | |
| Sample Number | 0 | 53 | 85 | 9 | 0 | 147 |
| Percent | 0.0 | 13.8 | 22.1 | 2.3 | 0.0 | 38.3 |
| Std. Error | 0.0 | 1.8 | 2.1 | 0.8 | 0.0 | 2.5 |
| Number | 0 | 1051 | 1685 | 178 | 0 | 2915 |
| Female | | | | | | |
| Sample Number | 0 | 83 | 146 | 8 | 0 | 237 |
| Percent | 0.0 | 21.6 | 37.9 | 2.1 | 0.0 | 61.7 |
| Std. Error | 0.0 | 2.1 | 2.5 | 0.7 | 0.0 | 2.5 |
| Number | 0 | 1646 | 2895 | 159 | 0 | 4699 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 137 | 231 | 17 | 0 | 385 |
| Percent | 0.0 | 35.6 | 60.0 | 4.4 | 0.0 | 100.0 |
| Std. Error | 0.0 | 2.4 | 2.5 | 1.0 | 0.0 | — |
| Number | 0 | 2717 | 4580 | 337 | 0 | 7634 |

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Appendix Table 25. District 101 commercial gillnet catch of chum salmon; age and sex composition by sampling period, 1983 (continued).

| | | | Age Group | | | Total |
|----------------|-----|----------------------|-----------|------|-----|-------|
| | 01 | 02 | 03 | 04 | 05 | |
| Period Number | 7 | (8/14/83 to 8/27/83) | | | | |
| Male | | | | | | |
| Sample Number | 0 | 44 | 48 | 8 | 0 | 100 |
| Percent | 0.0 | 13.5 | 14.8 | 2.5 | 0.0 | 31.4 |
| Std. Error | 0.0 | 1.9 | 2.0 | 0.9 | 0.0 | 2.6 |
| Number | 0 | 2622 | 2860 | 477 | 0 | 5958 |
| Female | | | | | | |
| Sample Number | 0 | 67 | 121 | 30 | 0 | 218 |
| Percent | 0.0 | 20.6 | 37.2 | 9.2 | 0.0 | 68.6 |
| Std. Error | 0.0 | 2.2 | 2.7 | 1.6 | 0.0 | 2.6 |
| Number | 0 | 3992 | 7209 | 1787 | 0 | 12989 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 115 | 172 | 38 | 0 | 325 |
| Percent | 0.0 | 35.4 | 52.9 | 11.7 | 0.0 | 100.0 |
| Std. Error | 0.0 | 2.7 | 2.8 | 1.8 | 0.0 | — |
| Number | 0 | 6852 | 10248 | 2264 | 0 | 19364 |
| Period Number | 8 | (8/28/83 to 9/03/83) | | | | |
| Male | | | | | | |
| Sample Number | 0 | 27 | 54 | 10 | 0 | 91 |
| Percent | 0.0 | 8.3 | 16.7 | 3.1 | 0.0 | 28.1 |
| Std. Error | 0.0 | 1.5 | 2.1 | 1.0 | 0.0 | 2.5 |
| Number | 0 | 596 | 1192 | 221 | 0 | 2008 |
| Female | | | | | | |
| Sample Number | 0 | 82 | 123 | 28 | 0 | 233 |
| Percent | 0.0 | 25.3 | 38.0 | 8.6 | 0.0 | 71.9 |
| Std. Error | 0.0 | 2.4 | 2.7 | 1.6 | 0.0 | 2.5 |
| Number | 0 | 1810 | 2714 | 618 | 0 | 5142 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 109 | 177 | 38 | 0 | 324 |
| Percent | 0.0 | 33.6 | 54.6 | 11.7 | 0.0 | 100.0 |
| Std. Error | 0.0 | 2.6 | 2.8 | 1.8 | 0.0 | — |
| Number | 0 | 2405 | 3906 | 839 | 0 | 7150 |

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Appendix Table 25. District 101 commercial gillnet catch of chum salmon; age and sex composition by sampling period, 1983 (continued).

| | | | Age Group | | | | |
|--|-----|-------|----------------------|-------|-----|--------|--|
| | 01 | 02 | 03 | 04 | 05 | Total | |
| Period Number | | 9 | (9/04/83 to 9/24/83) | | | | |
| Male | | | | | | | |
| Sample Number | 0 | 75 | 41 | 12 | 0 | 128 | |
| Percent | 0.0 | 22.1 | 12.1 | 3.5 | 0.0 | 41.0 | |
| Std. Error | 0.0 | 2.3 | 1.8 | 1.0 | 0.0 | 2.8 | |
| Number | 0 | 3921 | 2144 | 627 | 0 | 6693 | |
| Female | | | | | | | |
| Sample Number | 0 | 79 | 78 | 27 | 0 | 184 | |
| Percent | 0.0 | 23.3 | 23.0 | 8.0 | 0.0 | 59.0 | |
| Std. Error | 0.0 | 2.3 | 2.3 | 1.5 | 0.0 | 2.8 | |
| Number | 0 | 4131 | 4078 | 1412 | 0 | 9621 | |
| Sexes Combined | | | | | | | |
| Sample Number | 0 | 160 | 130 | 48 | 1 | 339 | |
| Percent | 0.0 | 47.2 | 38.3 | 14.2 | 0.0 | 100.0 | |
| Std. Error | 0.0 | 2.7 | 2.6 | 1.9 | 0.0 | 0.0 | |
| Number | 0 | 8366 | 6797 | 2510 | 0 | 17725 | |
| Combined Periods (Percentages are weighted by period catches) | | | | | | | |
| Male | | | | | | | |
| Sample Number | 0 | 359 | 670 | 130 | 2 | 1161 | |
| Percent | 0.0 | 9.5 | 17.0 | 3.8 | 0.1 | 38.1 | |
| Std. Error | 0.0 | 0.5 | 0.6 | 0.3 | 0.0 | 1.0 | |
| Number | 0 | 13286 | 23721 | 5344 | 83 | 42433 | |
| Female | | | | | | | |
| Sample Number | 0 | 500 | 1200 | 236 | 1 | 1937 | |
| Percent | 0.0 | 12.5 | 30.5 | 6.6 | 0.0 | 61.9 | |
| Std. Error | 0.0 | 0.5 | 0.8 | 0.4 | 0.0 | 1.0 | |
| Number | 0 | 17476 | 42660 | 9284 | 56 | 69476 | |
| Sexes Combined | | | | | | | |
| Sample Number | 0 | 947 | 2279 | 480 | 5 | 3711 | |
| Percent | 0.0 | 24.7 | 60.7 | 14.3 | 0.1 | 100.0 | |
| Std. Error | 0.0 | 0.7 | 0.8 | 0.6 | 0.1 | — | |
| Number | 0 | 34575 | 84844 | 20047 | 195 | 139713 | |

Appendix Table 26. District 101 commercial gillnet catch of chum salmon; length (mm) by sex, age, and sampling period, 1983.

| | 02 | 03 | Age Group 04 | 05 |
|--------------------------------------|------|-----|-----------------|-----|
| Period Number 1 (6/12/83 to 7/02/83) | | | | |
| Males | | | | |
| Ave. Length | 633 | 715 | 736 | 775 |
| Std. Error | 19.6 | 4.4 | 7.1 | — |
| Samp. Size | 6 | 100 | 42 | 1 |
| Females | | | | |
| Ave. Length | 619 | 671 | 681 | 660 |
| Std. Error | 30.3 | 3.8 | 7.3 | — |
| Samp. Size | 4 | 95 | 30 | 1 |
| Period Number 2 (7/03/83 to 7/16/83) | | | | |
| Males | | | | |
| Ave. Length | 629 | 662 | 681 | |
| Std. Error | 9.6 | 8.3 | 36.8 | |
| Samp. Size | 4 | 32 | 4 | |
| Females | | | | |
| Ave. Length | 594 | 642 | 661 | |
| Std. Error | 6.3 | 3.3 | 7.5 | |
| Samp. Size | 13 | 96 | 26 | |

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Appendix Table 26. District 101 commercial gillnet catch of chum salmon; length (mm) by sex, age, and sampling period, 1983
 (continued).

| | 02 | 03 | Age Group 04 | 05 |
|--------------------------------------|-----|-----|-----------------|-----|
| Period Number 3 (7/17/83 to 7/23/83) | | | | |
| Males | | | | |
| Ave. Length | 619 | 671 | 672 | 690 |
| Std. Error | 4.4 | 3.5 | 8.0 | — |
| Samp. Size | 74 | 163 | 30 | 1 |
| Females | | | | |
| Ave. Length | 596 | 646 | 653 | |
| Std. Error | 3.8 | 2.2 | 5.3 | |
| Samp. Size | 84 | 241 | 52 | |
| Period Number 4 (7/24/83 to 7/30/83) | | | | |
| Males | | | | |
| Ave. Length | 624 | 661 | 687 | |
| Std. Error | 6.5 | 4.5 | 13.0 | |
| Samp. Size | 40 | 95 | 7 | |
| Females | | | | |
| Ave. Length | 588 | 643 | 656 | |
| Std. Error | 4.7 | 2.8 | 8.2 | |
| Samp. Size | 51 | 157 | 16 | |

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Appendix Table 26. District 101 commercial gillnet catch of chum salmon; length (mm) by sex, age, and sampling period, 1983
(continued).

| | | Age Group | |
|--|-----|----------------------|------|
| | 02 | 03 | 04 |
| Period Number | 5 | (7/31/83 to 8/06/83) | 05 |
| Males | | | |
| Ave. Length | 598 | 662 | 678 |
| Std. Error | 6.4 | 6.2 | 20.0 |
| Samp. Size | 36 | 52 | 8 |
| Females | | | |
| Ave. Length | 584 | 640 | 658 |
| Std. Error | 5.6 | 2.8 | 4.7 |
| Samp. Size | 37 | 143 | 19 |
| Period Number 6 (8/07/83 to 8/13/83) | | | |
| Males | | | |
| Ave. Length | 592 | 648 | 671 |
| Std. Error | 6.2 | 5.2 | 6.6 |
| Samp. Size | 53 | 85 | 9 |
| Females | | | |
| Ave. Length | 592 | 624 | 642 |
| Std. Error | 3.8 | 3.0 | 19.7 |
| Samp. Size | 83 | 146 | 8 |

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Appendix Table 26. District 101 commercial gillnet catch of chum salmon; length (mm) by sex, age, and sampling period, 1983
(continued).

| | 02 | 03 | Age Group 04 | 05 |
|--------------------------------------|-----|-----|-----------------|----|
| Period Number 7 (8/14/83 to 8/27/83) | | | | |
| Males | | | | |
| Ave. Length | 585 | 640 | 638 | |
| Std. Error | 5.5 | 7.5 | 15.9 | |
| Samp. Size | 44 | 48 | 8 | |
| Females | | | | |
| Ave. Length | 577 | 622 | 645 | |
| Std. Error | 3.9 | 3.1 | 6.4 | |
| Samp. Size | 67 | 121 | 30 | |
| Period Number 8 (8/28/83 to 9/03/83) | | | | |
| Males | | | | |
| Ave. Length | 586 | 629 | 637 | |
| Std. Error | 8.5 | 6.5 | 14.1 | |
| Samp. Size | 26 | 54 | 10 | |
| Females | | | | |
| Ave. Length | 572 | 627 | 626 | |
| Std. Error | 3.8 | 3.6 | 6.2 | |
| Samp. Size | 82 | 123 | 28 | |

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Appendix Table 26. District 101 commercial gillnet catch of chum salmon;
length (mm) by sex, age, and sampling period, 1983
(continued).

| | 02 | 03 | Age Group | 04 | 05 |
|---------------|-----|----------------------|-----------|------|----|
| Period Number | 9 | (9/04/83 to 9/24/83) | | | |
| Males | | | | | |
| Ave. Length | 574 | 618 | | 618 | |
| Std. Error | 3.4 | 8.2 | | 14.9 | |
| Samp. Size | 75 | 40 | | 12 | |
| Females | | | | | |
| Ave. Length | 576 | 624 | | 636 | |
| Std. Error | 3.9 | 5.6 | | 7.5 | |
| Samp. Size | 79 | 78 | | 27 | |

Appendix Table 27. Annette Island commercial gillnet catch of chum salmon;
age and sex composition by sampling period, 1983.

| | 01 | 02 | 03 | Age Group 04 | 05 | Total |
|--|-----|------|-------|-----------------|-----|-------|
| Combined Periods (6/12/83 to 9/24/83) | | | | | | |
| Male | | | | | | |
| Sample Number | 0 | 6 | 50 | 12 | 0 | 68 |
| Percent | 0.0 | 1.3 | 10.8 | 2.6 | 0.0 | 35.8 |
| Std. Error | 0.0 | 0.5 | 1.4 | 0.7 | 0.0 | 3.5 |
| Number | 0 | 226 | 1883 | 452 | 0 | 2561 |
| Female | | | | | | |
| Sample Number | 0 | 22 | 78 | 22 | 0 | 122 |
| Percent | 0.0 | 4.8 | 16.9 | 4.8 | 0.0 | 64.2 |
| Std. Error | 0.0 | 1.0 | 1.7 | 1.0 | 0.0 | 3.5 |
| Number | 0 | 829 | 2938 | 829 | 0 | 4595 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 61 | 307 | 94 | 0 | 462 |
| Percent | 0.0 | 13.2 | 66.5 | 20.3 | 0.0 | 100.0 |
| Std. Error | 0.0 | 1.6 | 2.2 | 1.9 | 0.0 | — |
| Number | 0 | 2297 | 11562 | 3540 | 0 | 17400 |

Appendix Table 28. Annette Island commercial gillnet catch of chum salmon; length (mm) by sex, age, and sampling period, 1983.

| | 02 | 03 | Age Group | 05 |
|---------------------------------------|------|-----|-----------|----|
| Combined Periods (6/12/83 to 9/24/83) | | | | |
| Males | | | | |
| Ave. Length | 614 | 712 | 692 | |
| Std. Error | 18.6 | 7.1 | 18.9 | |
| Samp. Size | 6 | 50 | 12 | |
| Females | | | | |
| Ave. Length | 607 | 668 | 663 | |
| Std. Error | 7.3 | 5.8 | 6.8 | |
| Samp. Size | 22 | 78 | 22 | |

Appendix Table 29. District 106 commercial gillnet catch of chum salmon; age and sex composition by sampling period, 1983.

| | | | Age Group | | | |
|----------------|-----|----------------------|-----------|------|-----|-------|
| | 01 | 02 | 03 | 04 | 05 | Total |
| Period Number | 1 | (6/19/83 to 7/09/83) | | | | |
| Male | | | | | | |
| Sample Number | 0 | 25 | 92 | 44 | 1 | 162 |
| Percent | 0.0 | 8.7 | 31.8 | 15.2 | 0.3 | 65.6 |
| Std. Error | 0.0 | 1.7 | 2.7 | 2.1 | 0.3 | 3.0 |
| Number | 0 | 299 | 1100 | 526 | 12 | 1937 |
| Female | | | | | | |
| Sample Number | 0 | 19 | 40 | 25 | 1 | 85 |
| Percent | 0.0 | 6.6 | 13.8 | 8.7 | 0.3 | 34.4 |
| Std. Error | 0.0 | 1.5 | 2.0 | 1.7 | 0.3 | 3.0 |
| Number | 0 | 227 | 478 | 299 | 12 | 1016 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 49 | 156 | 82 | 2 | 289 |
| Percent | 0.0 | 17.0 | 54.0 | 28.4 | 0.7 | 100.0 |
| Std. Error | 0.0 | 2.2 | 2.9 | 2.7 | 0.5 | — |
| Number | 0 | 586 | 1866 | 981 | 24 | 3456 |
| Period Number | 2 | (7/10/83 to 7/23/83) | | | | |
| Male | | | | | | |
| Sample Number | 0 | 8 | 65 | 58 | 0 | 131 |
| Percent | 0.0 | 2.5 | 20.7 | 18.5 | 0.0 | 42.0 |
| Std. Error | 0.0 | 0.9 | 2.3 | 2.2 | 0.0 | 2.8 |
| Number | 0 | 120 | 977 | 872 | 0 | 1970 |
| Female | | | | | | |
| Sample Number | 0 | 19 | 79 | 82 | 1 | 181 |
| Percent | 0.0 | 6.1 | 25.2 | 26.1 | 0.3 | 58.0 |
| Std. Error | 0.0 | 1.4 | 2.5 | 2.5 | 0.3 | 2.8 |
| Number | 0 | 286 | 1188 | 1233 | 15 | 2721 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 28 | 144 | 141 | 1 | 314 |
| Percent | 0.0 | 8.9 | 45.9 | 44.9 | 0.3 | 100.0 |
| Std. Error | 0.0 | 1.6 | 2.8 | 2.8 | 0.3 | — |
| Number | 0 | 421 | 2165 | 2120 | 15 | 4721 |

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Appendix Table 29. District 106 commercial gillnet catch of chum salmon; age and sex composition by sampling period, 1983 (continued).

| | 01 | 02 | 03 | Age Group 04 | 05 | Total |
|-----------------------|-----|----------------------|------|-----------------|-----|-------|
| Period Number | 3 | (7/24/83 to 7/30/83) | | | | |
| Male | | | | | | |
| Sample Number | 0 | 20 | 74 | 51 | 2 | 147 |
| Percent | 0.0 | 6.6 | 24.3 | 16.7 | 0.7 | 48.7 |
| Std. Error | 0.0 | 1.04 | 2.5 | 2.1 | 0.5 | 2.9 |
| Number | 0 | 118 | 436 | 300 | 12 | 866 |
| Female | | | | | | |
| Sample Number | 0 | 26 | 79 | 50 | 0 | 155 |
| Percent | 0.0 | 8.5 | 25.9 | 16.4 | 0.0 | 51.3 |
| Std. Error | 0.0 | 1.6 | 2.5 | 2.1 | 0.0 | 2.9 |
| Number | 0 | 153 | 465 | 294 | 0 | 913 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 46 | 154 | 103 | 2 | 305 |
| Percent | 0.0 | 15.1 | 50.5 | 33.8 | 0.7 | 100.0 |
| Std. Error | 0.0 | 2.1 | 2.9 | 2.7 | 0.5 | — |
| Number | 0 | 271 | 907 | 607 | 12 | 1796 |
| Period Number | 4 | (7/31/83 to 8/06/83) | | | | |
| Male | | | | | | |
| Sample Number | 0 | 16 | 129 | 67 | 1 | 213 |
| Percent | 0.0 | 3.8 | 30.6 | 15.9 | 0.2 | 51.0 |
| Std. Error | 0.0 | 0.9 | 2.2 | 1.8 | 0.2 | 2.4 |
| Number | 0 | 44 | 353 | 183 | 3 | 583 |
| Female | | | | | | |
| Sample Number | 0 | 15 | 114 | 76 | 0 | 205 |
| Percent | 0.0 | 3.6 | 27.0 | 18.0 | 0.0 | 49.0 |
| Std. Error | 0.0 | 0.9 | 2.2 | 1.9 | 0.0 | 2.4 |
| Number | 0 | 41 | 312 | 208 | 0 | 561 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 31 | 245 | 145 | 1 | 422 |
| Percent | 0.0 | 7.3 | 58.1 | 34.4 | 0.2 | 100.0 |
| Std. Error | 0.0 | 1.3 | 2.4 | 2.3 | 0.2 | — |
| Number | 0 | 85 | 671 | 397 | 3 | 1155 |

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Appendix Table 29. District 106 commercial gillnet catch of chum salmon; age and sex composition by sampling period, 1983 (continued).

| | | | Age Group | | | |
|----------------|-----|----------------------|-----------|------|-----|-------|
| | 01 | 02 | 03 | 04 | 05 | Total |
| Period Number | 5 | (8/07/83 to 8/13/83) | | | | |
| Male | | | | | | |
| Sample Number | 0 | 22 | 49 | 27 | 0 | 98 |
| Percent | 0.0 | 8.8 | 19.6 | 10.8 | 0.0 | 39.8 |
| Std. Error | 0.0 | 1.8 | 2.5 | 2.0 | 0.0 | 3.1 |
| Number | 0 | 158 | 352 | 194 | 0 | 705 |
| Female | | | | | | |
| Sample Number | 0 | 17 | 88 | 40 | 3 | 148 |
| Percent | 0.0 | 6.8 | 35.2 | 16.0 | 1.2 | 60.2 |
| Std. Error | 0.0 | 1.6 | 2.9 | 2.3 | 0.7 | 3.1 |
| Number | 0 | 122 | 633 | 288 | 22 | 1064 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 39 | 138 | 70 | 3 | 250 |
| Percent | 0.0 | 15.6 | 55.2 | 28.0 | 1.2 | 100.0 |
| Std. Error | 0.0 | 2.3 | 3.2 | 2.8 | 0.7 | — |
| Number | 0 | 280 | 992 | 503 | 22 | 1798 |
| Period Number | 6 | (8/14/83 to 8/20/83) | | | | |
| Male | | | | | | |
| Sample Number | 0 | 40 | 81 | 30 | 0 | 151 |
| Percent | 0.0 | 13.2 | 26.7 | 9.9 | 0.0 | 49.8 |
| Std. Error | 0.0 | 1.9 | 2.5 | 1.7 | 0.0 | 2.9 |
| Number | 0 | 314 | 635 | 235 | 0 | 1184 |
| Female | | | | | | |
| Sample Number | 0 | 37 | 95 | 19 | 1 | 152 |
| Percent | 0.0 | 12.2 | 31.4 | 6.3 | 0.3 | 50.2 |
| Std. Error | 0.0 | 1.9 | 2.7 | 1.4 | 0.3 | 2.9 |
| Number | 0 | 290 | 745 | 149 | 8 | 1191 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 77 | 176 | 49 | 1 | 303 |
| Percent | 0.0 | 25.4 | 58.1 | 16.2 | 0.3 | 100.0 |
| Std. Error | 0.0 | 2.5 | 2.8 | 2.1 | 0.3 | — |
| Number | 0 | 604 | 1380 | 384 | 8 | 2375 |

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Appendix Table 29. District 106 commercial gillnet catch of chum salmon; age and sex composition by sampling period, 1983 (continued).

| | 01 | 02 | 03 | Age Group 04 | 05 | Total |
|----------------|-----|----------------------|------|-----------------|-----|-------|
| Period Number | 7 | (8/21/83 to 9/03/83) | | | | |
| Male | | | | | | |
| Sample Number | 0 | 40 | 44 | 21 | 0 | 105 |
| Percent | 0.0 | 12.9 | 14.2 | 6.8 | 0.0 | 34.1 |
| Std. Error | 0.0 | 1.9 | 2.0 | 1.4 | 0.0 | 2.7 |
| Number | 0 | 332 | 365 | 174 | 0 | 871 |
| Female | | | | | | |
| Sample Number | 0 | 59 | 103 | 39 | 2 | 203 |
| Percent | 0.0 | 19.0 | 33.2 | 12.6 | 0.6 | 65.9 |
| Std. Error | 0.0 | 2.2 | 2.7 | 1.9 | 0.4 | 2.7 |
| Number | 0 | 489 | 854 | 323 | 17 | 1684 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 100 | 148 | 60 | 2 | 310 |
| Percent | 0.0 | 32.3 | 47.7 | 19.4 | 0.6 | 100.0 |
| Std. Error | 0.0 | 2.7 | 2.8 | 2.2 | 0.4 | — |
| Number | 0 | 829 | 1227 | 498 | 17 | 2571 |
| Period Number | 8 | (9/04/83 to 9/24/83) | | | | |
| Male | | | | | | |
| Sample Number | 0 | 55 | 62 | 35 | 0 | 152 |
| Percent | 0.0 | 12.9 | 14.5 | 8.2 | 0.0 | 35.6 |
| Std. Error | 0.0 | 1.6 | 1.7 | 1.3 | 0.0 | 2.3 |
| Number | 0 | 292 | 329 | 186 | 0 | 807 |
| Female | | | | | | |
| Sample Number | 0 | 108 | 117 | 48 | 2 | 275 |
| Percent | 0.0 | 25.2 | 27.3 | 11.2 | 0.5 | 64.4 |
| Std. Error | 0.0 | 2.1 | 2.2 | 1.5 | 0.3 | 2.3 |
| Number | 0 | 573 | 621 | 255 | 11 | 1460 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 164 | 179 | 83 | 2 | 428 |
| Percent | 0.0 | 38.3 | 41.8 | 19.4 | 0.5 | 100.0 |
| Std. Error | 0.0 | 2.4 | 2.4 | 1.9 | 0.3 | — |
| Number | 0 | 871 | 950 | 441 | 11 | 2272 |

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Appendix Table 29. District 106 commercial gillnet catch of chum salmon; age and sex composition by sampling period, 1983 (continued).

| | 01 | 02 | 03 | Age Group 04 | 05 | Total |
|---|-----|------|-------|-----------------|-----|-------|
| Combined Periods (Percentages are weighted by period catches) | | | | | | |
| Male | | | | | | |
| Sample Number | 0 | 226 | 596 | 333 | 4 | 1159 |
| Percent | 0.0 | 8.3 | 22.6 | 13.3 | 0.1 | 46.2 |
| Std. Error | 0.0 | 0.6 | 0.9 | 0.8 | 0.1 | 1.1 |
| Number | 0 | 1676 | 4548 | 2671 | 26 | 8922 |
| Female | | | | | | |
| Sample Number | 0 | 300 | 715 | 379 | 10 | 1404 |
| Percent | 0.0 | 10.8 | 26.3 | 15.1 | 0.4 | 53.8 |
| Std. Error | 0.0 | 0.6 | 0.9 | 0.8 | 0.1 | 1.1 |
| Number | 0 | 2182 | 5296 | 3049 | 84 | 10611 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 534 | 1340 | 733 | 14 | 2621 |
| Percent | 0.0 | 19.6 | 50.4 | 29.4 | 0.5 | 100.0 |
| Std. Error | 0.0 | 0.8 | 1.1 | 1.0 | 0.2 | — |
| Number | 0 | 3947 | 10158 | 5930 | 110 | 20144 |

Appendix Table 30. District 106 commercial gillnet catch of chum salmon; length (mm) by sex, age, and sampling period, 1983.

| | 02 | 03 | Age Group 04 | 05 |
|---|------|------|-----------------|-----|
| Period Number 1 (6/19/83 to 7/09/83) | | | | |
| Males | | | | |
| Ave. Length | 606 | 649 | 669 | 609 |
| Std. Error | 9.5 | 5.4 | 8.2 | --- |
| Samp. Size | 25 | 92 | 44 | 1 |
| Females | | | | |
| Ave. Length | 586 | 645 | 659 | 562 |
| Std. Error | 11.3 | 10.1 | 7.7 | --- |
| Samp. Size | 19 | 40 | 25 | 1 |
| Period Number 2 (7/10/83 to 7/23/83) | | | | |
| Males | | | | |
| Ave. Length | 598 | 636 | 662 | |
| Std. Error | 18.2 | 3.6 | 5.6 | |
| Samp. Size | 8 | 65 | 58 | |
| Females | | | | |
| Ave. Length | 577 | 626 | 638 | 580 |
| Std. Error | 7.5 | 3.1 | 3.0 | --- |
| Samp. Size | 19 | 79 | 82 | 1 |

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Appendix Table 30. District 106 commercial gillnet catch of chum salmon; length (mm) by sex, age, and sampling period, 1983 (continued).

| | | Age Group | | |
|---|------|-----------|-----|------|
| | 02 | 03 | 04 | 05 |
| Period Number 3 (7/24/83 to 7/30/83) | | | | |
| Males | | | | |
| Ave. Length | 596 | 619 | 658 | 633 |
| Std. Error | 14.4 | 5.4 | 7.0 | 17.5 |
| Samp. Size | 20 | 74 | 51 | 2 |
| Females | | | | |
| Ave. Length | 580 | 619 | 644 | |
| Std. Error | 7.4 | 4.2 | 5.0 | |
| Samp. Size | 26 | 79 | 50 | |
| Period Number 4 (7/31/83 to 8/06/83) | | | | |
| Males | | | | |
| Ave. Length | 572 | 615 | 635 | 610 |
| Std. Error | 8.0 | 2.9 | 4.5 | --- |
| Samp. Size | 16 | 129 | 67 | 1 |
| Females | | | | |
| Ave. Length | 569 | 614 | 627 | |
| Std. Error | 9.0 | 2.8 | 3.9 | |
| Samp. Size | 15 | 113 | 76 | |

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Appendix Table 30. District 106 commercial gillnet catch of chum salmon;
length (mm) by sex, age, and sampling period, 1983
(continued).

| | 02 | 03 | Age Group 04 | 05 |
|---|-----|-----|-----------------|------|
| Period Number 5 (8/07/83 to 8/13/83) | | | | |
| Males | | | | |
| Ave. Length | 566 | 610 | 642 | |
| Std. Error | 5.8 | 4.9 | 7.7 | |
| Samp. Size | 22 | 49 | 27 | |
| Females | | | | |
| Ave. Length | 572 | 618 | 640 | 673 |
| Std. Error | 7.4 | 4.0 | 5.4 | 26.4 |
| Samp. Size | 17 | 88 | 40 | 3 |
| Period Number 6 (8/14/83 to 8/20/83) | | | | |
| Males | | | | |
| Ave. Length | 569 | 614 | 638 | |
| Std. Error | 5.5 | 4.5 | 11.2 | |
| Samp. Size | 40 | 81 | 29 | |
| Females | | | | |
| Ave. Length | 564 | 606 | 638 | 632 |
| Std. Error | 6.7 | 3.7 | 5.6 | --- |
| Samp. Size | 36 | 95 | 19 | 1 |

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Appendix Table 30. District 106 commercial gillnet catch of chum salmon; length (mm) by sex, age, and sampling period, 1983
(continued).

| | | | Age Group | |
|--------------------------------------|-----|-----|-----------|-------|
| | 02 | 03 | 04 | 05 |
| Period Number 7 (8/21/83 to 9/03/83) | | | | |
| Males | | | | |
| Ave. Length | 594 | 616 | 651 | |
| Std. Error | 6.6 | 7.7 | 9.4 | |
| Samp. Size | 40 | 44 | 21 | |
| Females | | | | |
| Ave. Length | 589 | 617 | 646 | 585 |
| Std. Error | 5.0 | 4.6 | 6.5 | 105.0 |
| Samp. Size | 59 | 103 | 39 | 2 |
| Period Number 8 (9/04/83 to 9/24/83) | | | | |
| Males | | | | |
| Ave. Length | 592 | 628 | 651 | |
| Std. Error | 4.7 | 4.6 | 5.4 | |
| Samp. Size | 55 | 62 | 35 | |
| Females | | | | |
| Ave. Length | 590 | 639 | 652 | 678 |
| Std. Error | 3.3 | 3.4 | 4.2 | 9.5 |
| Samp. Size | 108 | 117 | 48 | 2 |

Appendix Table 31. District 108 commercial gillnet catch of chum salmon; age and sex composition by sampling period, 1983.

| | 01 | 02 | 03 | Age Group 04 | 05 | Total |
|---|-----|------|------|-----------------|-----|-------|
| Combined Periods (8/14/83 to 10/01/83) | | | | | | |
| Male | | | | | | |
| Sample Number | 0 | 24 | 27 | 11 | 0 | 62 |
| Percent | 0.0 | 22.0 | 24.8 | 10.1 | 0.0 | 56.9 |
| Std. Error | 0.0 | 4.0 | 4.2 | 2.9 | 0.0 | 4.8 |
| Number | 0 | 149 | 167 | 68 | 0 | 384 |
| Female | | | | | | |
| Sample Number | 0 | 18 | 22 | 7 | 0 | 47 |
| Percent | 0.0 | 16.5 | 20.2 | 6.4 | 0.0 | 43.1 |
| Std. Error | 0.0 | 3.6 | 3.9 | 2.4 | 0.0 | 4.8 |
| Number | 0 | 111 | 136 | 43 | 0 | 291 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 42 | 49 | 18 | 0 | 109 |
| Percent | 0.0 | 38.5 | 45.0 | 16.5 | 0.0 | 100.0 |
| Std. Error | 0.0 | 4.7 | 4.8 | 3.6 | 0.0 | 0.0 |
| Number | 0 | 260 | 303 | 111 | 0 | 675 |

Appendix Table 32. District 108 commercial gillnet catch of chum salmon;
length (mm) by sex, age, and sampling period, 1983.

| | 02 | 03 | Age Group 04 | 05 |
|---|-----|------|-----------------|----|
| Combined Periods (8/14/83 to 10/01/83) | | | | |
| Males | | | | |
| Ave. Length | 586 | 650 | 660 | |
| Std. Error | 5.8 | 10.7 | 15.1 | |
| Samp. Size | 24 | 27 | 11 | |
| Females | | | | |
| Ave. Length | 593 | 646 | 654 | |
| Std. Error | 8.9 | 8.4 | 17.7 | |
| Samp. Size | 18 | 22 | 7 | |

Appendix Table 33. District 111 commercial gillnet catch of chum salmon; age and sex composition by sampling period, 1983.

| | | | Age Group | | | |
|--------------------------------------|-----|-----|-----------|------|-----|-------|
| | 01 | 02 | 03 | 04 | 05 | Total |
| Period Number 1 (6/19/83 to 7/09/83) | | | | | | |
| Male | | | | | | |
| Sample Number | 0 | 1 | 64 | 60 | 1 | 126 |
| Percent | 0.0 | 0.5 | 30.5 | 28.6 | 0.5 | 60.0 |
| Std. Error | 0.0 | 0.5 | 3.2 | 3.1 | 0.5 | 3.4 |
| Number | 0 | 4 | 242 | 227 | 4 | 476 |
| Female | | | | | | |
| Sample Number | 0 | 2 | 42 | 39 | 1 | 84 |
| Percent | 0.0 | 1.0 | 20.0 | 18.6 | 0.5 | 40.0 |
| Std. Error | 0.0 | 0.7 | 2.8 | 2.7 | 0.5 | 3.4 |
| Number | 0 | 8 | 159 | 147 | 4 | 317 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 3 | 106 | 99 | 2 | 210 |
| Percent | 0.0 | 1.4 | 50.5 | 47.1 | 1.0 | 100.0 |
| Std. Error | 0.0 | 0.8 | 3.5 | 3.5 | 0.7 | — |
| Number | 0 | 11 | 400 | 374 | 8 | 793 |
| Period Number 2 (7/10/83 to 7/16/83) | | | | | | |
| Male | | | | | | |
| Sample Number | 0 | 3 | 88 | 85 | 5 | 181 |
| Percent | 0.0 | 0.9 | 26.8 | 25.9 | 1.5 | 55.2 |
| Std. Error | 0.0 | 0.5 | 2.4 | 2.4 | 0.7 | 2.8 |
| Number | 0 | 7 | 192 | 185 | 11 | 395 |
| Female | | | | | | |
| Sample Number | 0 | 1 | 77 | 68 | 1 | 147 |
| Percent | 0.0 | 0.3 | 23.5 | 20.7 | 0.3 | 44.8 |
| Std. Error | 0.0 | 0.3 | 2.3 | 2.2 | 0.3 | 2.8 |
| Number | 0 | 2 | 168 | 148 | 2 | 320 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 4 | 165 | 153 | 6 | 328 |
| Percent | 0.0 | 1.2 | 50.3 | 46.6 | 1.8 | 100.0 |
| Std. Error | 0.0 | 0.6 | 2.8 | 2.8 | 0.7 | — |
| Number | 0 | 9 | 360 | 334 | 13 | 715 |

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Appendix Table 33. District 111 commercial gillnet catch of chum salmon; age and sex composition by sampling period, 1983 (continued).

| | 01 | 02 | 03 | Age Group 04 | 05 | total |
|----------------|-----|----------------------|------|-----------------|-----|-------|
| Period Number | 3 | (7/17/83 to 7/23/83) | | | | |
| Male | | | | | | |
| Sample Number | 0 | 12 | 126 | 47 | 4 | 189 |
| Percent | 0.0 | 3.4 | 35.8 | 13.4 | 1.1 | 53.8 |
| Std. Error | 0.0 | 1.0 | 2.6 | 1.8 | 0.6 | 2.7 |
| Number | 0 | 42 | 437 | 163 | 14 | 656 |
| Female | | | | | | |
| Sample Number | 0 | 6 | 88 | 66 | 2 | 162 |
| Percent | 0.0 | 1.7 | 25.0 | 18.8 | 0.6 | 46.2 |
| Std. Error | 0.0 | 0.7 | 2.3 | 2.1 | 0.4 | 2.7 |
| Number | 0 | 21 | 305 | 229 | 7 | 562 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 18 | 215 | 113 | 6 | 352 |
| Percent | 0.0 | 5.1 | 61.1 | 32.1 | 1.7 | 100.0 |
| Std. Error | 0.0 | 1.2 | 2.6 | 2.5 | 0.7 | 2.7 |
| Number | 0 | 62 | 746 | 392 | 21 | 1221 |
| Period Number | 4 | (7/24/83 to 8/06/83) | | | | |
| Male | | | | | | |
| Sample Number | 0 | 10 | 70 | 58 | 1 | 139 |
| Percent | 0.0 | 3.2 | 22.1 | 18.3 | 0.3 | 43.8 |
| Std. Error | 0.0 | 1.0 | 2.3 | 2.2 | 0.3 | 2.8 |
| Number | 0 | 76 | 531 | 440 | 8 | 1054 |
| Female | | | | | | |
| Sample Number | 0 | 3 | 102 | 69 | 4 | 178 |
| Percent | 0.0 | 0.9 | 32.2 | 21.8 | 1.3 | 56.2 |
| Std. Error | 0.0 | 0.5 | 2.6 | 2.3 | 0.6 | 2.8 |
| Number | 0 | 23 | 773 | 523 | 30 | 1349 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 13 | 172 | 127 | 5 | 317 |
| Percent | 0.0 | 4.1 | 54.3 | 40.1 | 1.6 | 100.0 |
| Std. Error | 0.0 | 1.1 | 2.8 | 2.8 | 0.7 | — |
| Number | 0 | 99 | 1304 | 963 | 38 | 2403 |

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Appendix Table 33. District 111 commercial gillnet catch of chum salmon; age and sex composition by sampling period, 1983 (continued).

| | 01 | 02 | 03 | Age Group 04 | 05 | Total |
|----------------|-----|----------------------|------|-----------------|-----|-------|
| Period Number | 5 | (8/07/83 to 8/27/83) | | | | |
| Male | | | | | | |
| Sample Number | 0 | 6 | 76 | 29 | 0 | 111 |
| Percent | 0.0 | 2.7 | 34.5 | 13.2 | 0.0 | 50.5 |
| Std. Error | 0.0 | 1.1 | 3.2 | 2.3 | 0.0 | 3.4 |
| Number | 0 | 85 | 1083 | 413 | 0 | 1581 |
| Female | | | | | | |
| Sample Number | 0 | 1 | 71 | 36 | 1 | 109 |
| Percent | 0.0 | 0.5 | 32.3 | 16.4 | 0.5 | 49.5 |
| Std. Error | 0.0 | 0.5 | 2.6 | 2.3 | 0.6 | 3.4 |
| Number | 0 | 14 | 1011 | 513 | 14 | 1553 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 7 | 147 | 65 | 1 | 220 |
| Percent | 0.0 | 3.2 | 66.8 | 29.5 | 0.5 | 100.0 |
| Std. Error | 0.0 | 1.2 | 3.2 | 3.1 | 0.5 | — |
| Number | 0 | 100 | 2094 | 926 | 14 | 3134 |
| Period Number | 6 | (8/28/83 to 9/10/83) | | | | |
| Male | | | | | | |
| Sample Number | 0 | 4 | 166 | 33 | 5 | 208 |
| Percent | 0.0 | 1.0 | 41.6 | 8.3 | 1.3 | 52.1 |
| Std. Error | 0.0 | 0.5 | 2.5 | 1.4 | 0.6 | 2.5 |
| Number | 0 | 69 | 2880 | 572 | 87 | 3608 |
| Female | | | | | | |
| Sample Number | 0 | 2 | 142 | 46 | 1 | 191 |
| Percent | 0.0 | 0.5 | 35.6 | 11.5 | 0.3 | 47.9 |
| Std. Error | 0.0 | 0.4 | 2.4 | 1.6 | 0.3 | 2.5 |
| Number | 0 | 35 | 2463 | 798 | 17 | 3314 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 6 | 308 | 79 | 6 | 399 |
| Percent | 0.0 | 1.5 | 77.2 | 19.8 | 1.5 | 100.0 |
| Std. Error | 0.0 | 0.6 | 2.1 | 2.0 | 0.6 | — |
| Number | 0 | 104 | 5343 | 1371 | 104 | 6922 |

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Appendix Table 33. District 111 commercial gillnet catch of chum salmon; age and sex composition by sampling period, 1983 (continued).

| | 01 | 02 | Age Group 03 | 04 | 05 | total |
|---|-----|-----|-----------------|------|-----|-------|
| Combined Periods (Percentages are weighted by period catches) | | | | | | |
| Male | | | | | | |
| Sample Number | 0 | 36 | 590 | 312 | 16 | 954 |
| Percent | 0.0 | 1.9 | 35.3 | 13.2 | 0.8 | 51.2 |
| Std. Error | 0.0 | 0.4 | 1.4 | 0.9 | 0.3 | 1.4 |
| Number | 0 | 283 | 5364 | 2000 | 123 | 7769 |
| Female | | | | | | |
| Sample Number | 0 | 15 | 522 | 324 | 10 | 871 |
| Percent | 0.0 | 0.7 | 32.1 | 15.5 | 0.5 | 48.8 |
| Std. Error | 0.0 | 0.2 | 1.4 | 1.0 | 0.2 | 1.4 |
| Number | 0 | 102 | 4880 | 2358 | 75 | 7415 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 51 | 1113 | 636 | 26 | 1826 |
| Percent | 0.0 | 2.5 | 67.5 | 28.7 | 1.3 | 100.0 |
| Std. Error | 0.0 | 0.4 | 1.3 | 1.2 | 0.3 | — |
| Number | 0 | 385 | 10247 | 4359 | 198 | 15188 |

Appendix Table 34. District 111 commercial gillnet catch of chum salmon;
length (mm) by sex, age, and sampling period, 1983.

| | 02 | 03 | Age Group 04 | 05 |
|-----------------|----------------------|-----|-----------------|------|
| Period Number 1 | (6/19/83 to 7/09/83) | | | |
| Males | | | | |
| Ave. Length | 610 | 665 | 700 | 695 |
| Std. Error | — | 5.6 | 6.0 | — |
| Samp. Size | 1 | 63 | 60 | 1 |
| Females | | | | |
| Ave. Length | 572 | 637 | 663 | 750 |
| Std. Error | 17.5 | 6.2 | 4.1 | — |
| Samp. Size | 2 | 42 | 39 | 1 |
| Period Number 2 | (7/10/83 to 7/16/83) | | | |
| Males | | | | |
| Ave. Length | 584 | 650 | 677 | 718 |
| Std. Error | 19.4 | 5.7 | 5.1 | 16.7 |
| Samp. Size | 3 | 87 | 83 | 5 |
| Females | | | | |
| Ave. Length | 544 | 646 | 653 | 661 |
| Std. Error | — | 4.2 | 3.4 | — |
| Samp. Size | 1 | 76 | 68 | 1 |

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Appendix Table 34. District 111 commercial gillnet catch of chum salmon; length (mm) by sex, age, and sampling period, 1983
(continued).

| | | | Age Group | |
|--------------------------------------|------|-----|-----------|------|
| | 02 | 03 | 04 | 05 |
| Period Number 3 (7/17/83 to 7/23/83) | | | | |
| Males | | | | |
| Ave. Length | 579 | 637 | 666 | 669 |
| Std. Error | 10.2 | 4.1 | 6.5 | 17.8 |
| Samp. Size | 12 | 126 | 47 | 4 |
| Females | | | | |
| Ave. Length | 601 | 633 | 655 | 662 |
| Std. Error | 18.2 | 3.1 | 3.8 | 22.5 |
| Samp. Size | 6 | 88 | 66 | 2 |
| Period Number 4 (7/24/83 to 8/06/83) | | | | |
| Males | | | | |
| Ave. Length | 558 | 652 | 674 | 620 |
| Std. Error | 14.3 | 5.4 | 5.6 | — |
| Samp. Size | 10 | 70 | 58 | 1 |
| Females | | | | |
| Ave. Length | 575 | 627 | 653 | 649 |
| Std. Error | 20.8 | 2.9 | 4.6 | 23.6 |
| Samp. Size | 3 | 102 | 69 | 4 |

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Appendix Table 34. District 111 commercial gillnet catch of chum salmon;
length (mm) by sex, age, and sampling period, 1983
(continued).

| | 02 | 03 | Age Group 04 | 05 |
|--------------------------------------|------|-----|-----------------|------|
| Period Number 5 (8/07/83 to 8/27/83) | | | | |
| Males | | | | |
| Ave. Length | 600 | 654 | 676 | |
| Std. Error | 15.2 | 3.7 | 6.2 | |
| Samp. Size | 6 | 76 | 29 | |
| Females | | | | |
| Ave. Length | 570 | 646 | 660 | 580 |
| Std. Error | — | 2.9 | 4.0 | — |
| Samp. Size | 1 | 71 | 36 | 1 |
| Period Number 6 (8/28/83 to 9/10/83) | | | | |
| Males | | | | |
| Ave. Length | 580 | 648 | 665 | 673 |
| Std. Error | 19.7 | 2.8 | 5.3 | 35.8 |
| Samp. Size | 4 | 166 | 33 | 5 |
| Females | | | | |
| Ave. Length | 607 | 650 | 657 | 670 |
| Std. Error | 37.5 | 2.3 | 4.1 | — |
| Samp. Size | 2 | 142 | 46 | 1 |

Appendix Table 35. District 115 commercial gillnet catch of chum salmon; age and sex composition by sampling period, 1983.

| | | | Age Group | | | |
|--------------------------------------|-----|-----|-----------|------|-----|-------|
| | 01 | 02 | 03 | 04 | 05 | Total |
| Period Number 1 (6/19/83 to 7/02/83) | | | | | | |
| Male | | | | | | |
| Sample Number | 0 | 0 | 42 | 32 | 0 | 74 |
| Percent | 0.0 | 0.0 | 23.1 | 17.6 | 0.0 | 40.7 |
| Std. Error | 0.0 | 0.0 | 3.1 | 2.8 | 0.0 | 3.7 |
| Number | 0 | 0 | 341 | 260 | 0 | 601 |
| Female | | | | | | |
| Sample Number | 0 | 2 | 61 | 45 | 0 | 108 |
| Percent | 0.0 | 1.1 | 33.5 | 24.7 | 0.0 | 59.3 |
| Std. Error | 0.0 | 0.8 | 3.5 | 3.2 | 0.0 | 3.7 |
| Number | 0 | 16 | 495 | 365 | 0 | 877 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 2 | 103 | 77 | 0 | 182 |
| Percent | 0.0 | 1.1 | 56.6 | 42.3 | 0.0 | 100.0 |
| Std. Error | 0.0 | 0.8 | 3.7 | 3.7 | 0.0 | — |
| Number | 0 | 16 | 836 | 625 | 0 | 1478 |
| Period Number 2 (7/03/83 to 7/09/83) | | | | | | |
| Male | | | | | | |
| Sample Number | 0 | 0 | 144 | 55 | 2 | 201 |
| Percent | 0.0 | 0.0 | 36.5 | 13.9 | 0.5 | 50.9 |
| Std. Error | 0.0 | 0.0 | 2.4 | 1.7 | 0.4 | 2.5 |
| Number | 0 | 0 | 983 | 376 | 14 | 1372 |
| Female | | | | | | |
| Sample Number | 0 | 0 | 133 | 61 | 0 | 194 |
| Percent | 0.0 | 0.0 | 33.7 | 15.4 | 0.0 | 49.1 |
| Std. Error | 0.0 | 0.0 | 2.4 | 1.8 | 0.0 | 2.5 |
| Number | 0 | 0 | 908 | 416 | 0 | 1325 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 0 | 277 | 116 | 2 | 395 |
| Percent | 0.0 | 0.0 | 70.1 | 29.4 | 0.5 | 100.0 |
| Std. Error | 0.0 | 0.0 | 2.3 | 2.3 | 0.4 | — |
| Number | 0 | 0 | 1891 | 792 | 14 | 2697 |

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Appendix Table 35. District 115 commercial gillnet catch of chum salmon; age and sex composition by sampling period, 1983 (continued).

| | | | Age Group | | | |
|--------------------------------------|-----|-----|-----------|------|-----|-------|
| | 01 | 02 | 03 | 04 | 05 | Total |
| Period Number 3 (7/10/83 to 7/16/83) | | | | | | |
| Male | | | | | | |
| Sample Number | 0 | 3 | 232 | 62 | 1 | 298 |
| Percent | 0.0 | 0.4 | 33.7 | 9.0 | 0.1 | 43.4 |
| Std. Error | 0.0 | 0.2 | 1.8 | 1.1 | 0.1 | 1.9 |
| Number | 0 | 16 | 1263 | 337 | 5 | 1622 |
| Female | | | | | | |
| Sample Number | 0 | 2 | 308 | 77 | 2 | 389 |
| Percent | 0.0 | 0.3 | 44.8 | 11.2 | 0.3 | 56.6 |
| Std. Error | 0.0 | 0.2 | 1.9 | 1.2 | 0.2 | 1.9 |
| Number | 0 | 11 | 1677 | 419 | 11 | 2117 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 5 | 540 | 140 | 3 | 688 |
| Percent | 0.0 | 0.7 | 78.5 | 20.3 | 0.4 | 100.0 |
| Std. Error | 0.0 | 0.3 | 1.6 | 1.5 | 0.2 | — |
| Number | 0 | 27 | 2939 | 762 | 16 | 3745 |
| Period Number 4 (7/17/83 to 7/30/83) | | | | | | |
| Male | | | | | | |
| Sample Number | 0 | 5 | 184 | 28 | 1 | 218 |
| Percent | 0.0 | 1.1 | 40.1 | 6.1 | 0.2 | 47.5 |
| Std. Error | 0.0 | 0.5 | 2.3 | 1.1 | 0.2 | 2.3 |
| Number | 0 | 78 | 2865 | 436 | 16 | 3394 |
| Female | | | | | | |
| Sample Number | 0 | 2 | 195 | 42 | 2 | 241 |
| Percent | 0.0 | 0.4 | 42.5 | 9.2 | 0.4 | 52.5 |
| Std. Error | 0.0 | 0.3 | 2.3 | 1.4 | 0.3 | 2.3 |
| Number | 0 | 31 | 3036 | 654 | 31 | 3752 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 7 | 379 | 70 | 3 | 459 |
| Percent | 0.0 | 1.5 | 82.6 | 15.3 | 0.7 | 100.0 |
| Std. Error | 0.0 | 0.6 | 1.8 | 1.7 | 0.4 | — |
| Number | 0 | 109 | 5901 | 1090 | 47 | 7146 |

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Appendix Table 35. District 115 commercial gillnet catch of chum salmon; age and sex composition by sampling period, 1983 (continued).

| | | | Age Group | | | |
|-----------------------|-----|-----|----------------------|------|-----|-------|
| | 01 | 02 | 03 | 04 | 05 | Total |
| Period Number | | 5 | (7/31/83 to 8/06/83) | | | |
| Male | | | | | | |
| Sample Number | 0 | 12 | 203 | 103 | 0 | 318 |
| Percent | 0.0 | 2.1 | 35.9 | 18.2 | 0.0 | 56.4 |
| Std. Error | 0.0 | 0.6 | 2.0 | 1.6 | 0.0 | 2.1 |
| Number | 0 | 164 | 2776 | 1408 | 0 | 4348 |
| Female | | | | | | |
| Sample Number | 0 | 7 | 137 | 101 | 1 | 246 |
| Percent | 0.0 | 1.2 | 24.2 | 17.9 | 0.2 | 43.6 |
| Std. Error | 0.0 | 0.5 | 1.8 | 1.6 | 0.2 | 2.1 |
| Number | 0 | 96 | 1873 | 1381 | 14 | 3363 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 19 | 340 | 205 | 1 | 565 |
| Percent | 0.0 | 3.4 | 60.2 | 36.3 | 0.2 | 100.0 |
| Std. Error | 0.0 | 0.8 | 2.1 | 2.0 | 0.2 | — |
| Number | 0 | 260 | 4649 | 2803 | 14 | 7725 |
| Period Number | | 6 | (8/07/83 to 8/13/83) | | | |
| Male | | | | | | |
| Sample Number | 0 | 11 | 139 | 53 | 2 | 205 |
| Percent | 0.0 | 2.1 | 27.0 | 10.3 | 0.4 | 39.9 |
| Std. Error | 0.0 | 0.6 | 2.0 | 1.3 | 0.3 | 2.2 |
| Number | 0 | 197 | 2491 | 950 | 36 | 3674 |
| Female | | | | | | |
| Sample Number | 0 | 5 | 206 | 98 | 0 | 309 |
| Percent | 0.0 | 1.0 | 40.1 | 19.1 | 0.0 | 60.1 |
| Std. Error | 0.0 | 0.4 | 2.2 | 1.7 | 0.0 | 2.2 |
| Number | 0 | 90 | 3692 | 1756 | 0 | 5537 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 16 | 345 | 151 | 2 | 514 |
| Percent | 0.0 | 3.1 | 67.1 | 29.4 | 0.4 | 100.0 |
| Std. Error | 0.0 | 0.8 | 2.1 | 2.0 | 0.3 | — |
| Number | 0 | 287 | 6182 | 2706 | 36 | 9211 |

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Appendix Table 35. District 115 commercial gillnet catch of chum salmon; age and sex composition by sampling period, 1983 (continued).

| | 01 | 02 | 03 | Age Group 04 | 05 | Total |
|---|-----|------|-------|-----------------|-----|-------|
| Period Number 7 (8/14/83 to 8/20/83) | | | | | | |
| Male | | | | | | |
| Sample Number | 0 | 12 | 161 | 55 | 1 | 229 |
| Percent | 0.0 | 2.6 | 34.4 | 11.8 | 0.2 | 48.9 |
| Std. Error | 0.0 | 0.7 | 2.2 | 1.5 | 0.2 | 2.3 |
| Number | 0 | 281 | 3771 | 1288 | 23 | 5364 |
| Female | | | | | | |
| Sample Number | 0 | 1 | 164 | 74 | 0 | 239 |
| Percent | 0.0 | 0.2 | 35.0 | 15.8 | 0.0 | 51.1 |
| Std. Error | 0.0 | 0.2 | 2.2 | 1.7 | 0.0 | 2.3 |
| Number | 0 | 23 | 3841 | 1733 | 0 | 5598 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 13 | 325 | 129 | 1 | 468 |
| Percent | 0.0 | 2.8 | 69.4 | 27.6 | 0.2 | 100.0 |
| Std. Error | 0.0 | 0.8 | 2.1 | 2.1 | 0.2 | — |
| Number | 0 | 305 | 7613 | 3022 | 23 | 10962 |
| Period Number 8 (8/21/83 to 8/27/83) | | | | | | |
| Male | | | | | | |
| Sample Number | 0 | 11 | 166 | 43 | 1 | 221 |
| Percent | 0.0 | 2.4 | 36.4 | 9.4 | 0.2 | 48.5 |
| Std. Error | 0.0 | 0.7 | 2.3 | 1.4 | 0.2 | 2.3 |
| Number | 0 | 667 | 10063 | 2607 | 61 | 13397 |
| Female | | | | | | |
| Sample Number | 0 | 12 | 173 | 49 | 1 | 235 |
| Percent | 0.0 | 2.6 | 37.9 | 10.7 | 0.2 | 51.5 |
| Std. Error | 0.0 | 0.7 | 2.3 | 1.4 | 0.2 | 2.3 |
| Number | 0 | 727 | 10487 | 2970 | 61 | 14245 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 23 | 339 | 92 | 2 | 456 |
| Percent | 0.0 | 5.0 | 74.3 | 20.2 | 0.4 | 100.0 |
| Std. Error | 0.0 | 1.0 | 2.0 | 1.9 | 0.3 | — |
| Number | 0 | 1394 | 20550 | 5577 | 121 | 27642 |

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Appendix Table 35. District 115 commercial gillnet catch of chum salmon; age and sex composition by sampling period, 1983 (continued).

| | 01 | 02 | 03 | Age Group 04 | 05 | Total |
|--|-----|------|-------|-----------------|-----|-------|
| Period Number 9 (8/28/83 to 9/03/83) | | | | | | |
| Male | | | | | | |
| Sample Number | 0 | 2 | 117 | 17 | 1 | 137 |
| Percent | 0.0 | 0.7 | 41.6 | 6.0 | 0.4 | 48.8 |
| Std. Error | 0.0 | 0.5 | 2.9 | 1.4 | 0.4 | 3.0 |
| Number | 0 | 319 | 18685 | 2715 | 160 | 21879 |
| Female | | | | | | |
| Sample Number | 0 | 1 | 120 | 23 | 0 | 144 |
| Percent | 0.0 | 0.4 | 42.7 | 8.2 | 0.0 | 51.2 |
| Std. Error | 0.0 | 0.4 | 3.0 | 1.6 | 0.0 | 3.0 |
| Number | 0 | 160 | 19164 | 3673 | 0 | 22997 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 3 | 237 | 40 | 1 | 281 |
| Percent | 0.0 | 1.1 | 84.3 | 14.2 | 0.4 | 100.0 |
| Std. Error | 0.0 | 0.6 | 2.2 | 2.1 | 0.4 | — |
| Number | 0 | 479 | 37849 | 6388 | 160 | 44876 |
| Period Number 10 (9/04/83 to 9/10/83) | | | | | | |
| Male | | | | | | |
| Sample Number | 0 | 10 | 145 | 22 | 0 | 177 |
| Percent | 0.0 | 2.9 | 42.8 | 6.5 | 0.0 | 52.2 |
| Std. Error | 0.0 | 0.9 | 2.7 | 1.3 | 0.0 | 2.7 |
| Number | 0 | 1130 | 16386 | 2486 | 0 | 20002 |
| Female | | | | | | |
| Sample Number | 0 | 3 | 143 | 16 | 0 | 162 |
| Percent | 0.0 | 0.9 | 42.2 | 4.7 | 0.0 | 47.8 |
| Std. Error | 0.0 | 0.5 | 2.7 | 1.2 | 0.0 | 2.7 |
| Number | 0 | 339 | 16160 | 1808 | 0 | 18307 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 13 | 288 | 38 | 0 | 339 |
| Percent | 0.0 | 3.8 | 85.0 | 11.2 | 0.0 | 100.0 |
| Std. Error | 0.0 | 1.0 | 1.9 | 1.7 | 0.0 | — |
| Number | 0 | 1469 | 32546 | 4294 | 0 | 38309 |

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Appendix Table 35. District 115 commercial gillnet catch of chum salmon; age and sex composition by sampling period, 1983 (continued).

| | 01 | 02 | 03 | Age Group 04 | 05 | Total |
|--|-----|------|-------|-----------------|-----|-------|
| Period Number 11 (9/11/83 to 9/24/83) | | | | | | |
| Male | | | | | | |
| Sample Number | 0 | 5 | 156 | 30 | 0 | 191 |
| Percent | 0.0 | 1.1 | 34.0 | 6.5 | 0.0 | 41.7 |
| Std. Error | 0.0 | 0.5 | 2.2 | 1.2 | 0.0 | 2.3 |
| Number | 0 | 971 | 30300 | 5827 | 0 | 37098 |
| Female | | | | | | |
| Sample Number | 0 | 3 | 208 | 54 | 2 | 267 |
| Percent | 0.0 | 0.7 | 45.3 | 11.8 | 0.4 | 58.3 |
| Std. Error | 0.0 | 0.4 | 2.3 | 1.5 | 0.3 | 2.3 |
| Number | 0 | 583 | 40400 | 10488 | 388 | 51859 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 8 | 365 | 84 | 2 | 459 |
| Percent | 0.0 | 1.7 | 79.5 | 18.3 | 0.4 | 100.0 |
| Std. Error | 0.0 | 0.6 | 1.9 | 1.8 | 0.3 | — |
| Number | 0 | 1554 | 70894 | 16315 | 388 | 89151 |
| Period Number 12 (9/25/83 to 10/01/83) | | | | | | |
| Male | | | | | | |
| Sample Number | 0 | 9 | 75 | 13 | 0 | 97 |
| Percent | 0.0 | 3.2 | 26.7 | 4.6 | 0.0 | 34.5 |
| Std. Error | 0.0 | 1.1 | 2.6 | 1.3 | 0.0 | 2.8 |
| Number | 0 | 2169 | 18073 | 3133 | 0 | 23375 |
| Female | | | | | | |
| Sample Number | 0 | 5 | 150 | 29 | 0 | 184 |
| Percent | 0.0 | 1.8 | 53.4 | 10.3 | 0.0 | 65.5 |
| Std. Error | 0.0 | 0.8 | 3.0 | 1.8 | 0.0 | 2.8 |
| Number | 0 | 1205 | 36146 | 6988 | 0 | 44339 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 14 | 225 | 42 | 0 | 281 |
| Percent | 0.0 | 5.0 | 80.1 | 14.9 | 0.0 | 100.0 |
| Std. Error | 0.0 | 1.3 | 2.4 | 2.1 | 0.0 | — |
| Number | 0 | 3374 | 54219 | 10121 | 0 | 67714 |

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Appendix Table 35. District 115 commercial gillnet catch of chum salmon; age and sex composition by sampling period, 1983 (continued).

| | | | Age Group | | | |
|-----------------------|-----|-----|------------------------|------|-----|-------|
| | 01 | 02 | 03 | 04 | 05 | Total |
| Period Number | | 13 | (10/02/83 to 10/08/83) | | | |
| Male | | | | | | |
| Sample Number | 0 | 7 | 119 | 20 | 0 | 146 |
| Percent | 0.0 | 2.3 | 39.1 | 6.6 | 0.0 | 49.5 |
| Std. Error | 0.0 | 0.9 | 2.8 | 1.4 | 0.0 | 2.9 |
| Number | 0 | 529 | 8998 | 1512 | 0 | 11039 |
| Female | | | | | | |
| Sample Number | 0 | 2 | 115 | 32 | 0 | 149 |
| Percent | 0.0 | 0.7 | 37.8 | 10.5 | 0.0 | 50.5 |
| Std. Error | 0.0 | 0.5 | 2.8 | 1.8 | 0.0 | 2.9 |
| Number | 0 | 151 | 8695 | 2420 | 0 | 11266 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 10 | 241 | 53 | 0 | 304 |
| Percent | 0.0 | 3.3 | 79.3 | 17.4 | 0.0 | 100.0 |
| Std. Error | 0.0 | 1.0 | 2.3 | 2.2 | 0.0 | — |
| Number | 0 | 756 | 18222 | 4007 | 0 | 22986 |
| Period Number | | 14 | (10/09/83 to 10/15/83) | | | |
| Male | | | | | | |
| Sample Number | 0 | 14 | 74 | 31 | 0 | 119 |
| Percent | 0.0 | 4.7 | 24.6 | 10.3 | 0.0 | 39.5 |
| Std. Error | 0.0 | 1.2 | 2.5 | 1.8 | 0.0 | 2.8 |
| Number | 0 | 308 | 1627 | 681 | 0 | 2616 |
| Female | | | | | | |
| Sample Number | 0 | 8 | 128 | 46 | 0 | 182 |
| Percent | 0.0 | 2.7 | 42.5 | 15.3 | 0.0 | 60.5 |
| Std. Error | 0.0 | 0.9 | 2.9 | 2.1 | 0.0 | 2.8 |
| Number | 0 | 176 | 2813 | 1011 | 0 | 4000 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 22 | 202 | 77 | 0 | 301 |
| Percent | 0.0 | 7.3 | 67.1 | 25.6 | 0.0 | 100.0 |
| Std. Error | 0.0 | 1.5 | 2.7 | 2.5 | 0.0 | — |
| Number | 0 | 484 | 4440 | 1692 | 0 | 6616 |

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Appendix Table 35. District 115 commercial gillnet catches of chum salmon; age and sex composition by sampling period, 1983 (continued).

| | 01 | 02 | 03 | Age Group 04 | 05 | total |
|--|-----|-------|--------|-----------------|-----|--------|
| Combined Periods (Percentages are weighted by period catches) | | | | | | |
| Male | | | | | | |
| Sample Number | 0 | 101 | 1957 | 564 | 9 | 2631 |
| Percent | 0.0 | 2.0 | 34.9 | 7.1 | 0.1 | 44.1 |
| Std. Error | 0.0 | 0.3 | 1.0 | 0.5 | 0.1 | 1.0 |
| Number | 0 | 6830 | 118620 | 24016 | 314 | 149780 |
| Female | | | | | | |
| Sample Number | 0 | 53 | 2241 | 747 | 8 | 3049 |
| Percent | 0.0 | 1.1 | 43.9 | 10.6 | 0.1 | 55.9 |
| Std. Error | 0.0 | 0.2 | 1.0 | 0.6 | 0.1 | 1.0 |
| Number | 0 | 3608 | 149388 | 36084 | 505 | 189584 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 155 | 4206 | 1314 | 17 | 5692 |
| Percent | 0.0 | 3.1 | 79.0 | 17.7 | 0.2 | 100.0 |
| Std. Error | 0.0 | 0.4 | 0.8 | 0.8 | 0.1 | — |
| Number | 0 | 10513 | 268731 | 60195 | 819 | 340258 |

Appendix Table 36. District 115 commercial gillnet catch of chum salmon; length (mm) by sex, age, and sampling period, 1983.

| | 02 | 03 | Age Group 04 | 05 |
|---|------|-----|-----------------|------|
| Period Number 1 (6/19/83 to 7/02/83) | | | | |
| Males | | | | |
| Ave. Length | | 680 | | 693 |
| Std. Error | | 6.1 | | 6.9 |
| Samp. Size | | 42 | | 32 |
| Females | | | | |
| Ave. Length | 523 | 661 | 661 | |
| Std. Error | 17.0 | 4.2 | 4.1 | |
| Samp. Size | 2 | 61 | 45 | |
| Period Number 2 (7/03/83 to 7/09/83) | | | | |
| Males | | | | |
| Ave. Length | | 665 | 682 | 715 |
| Std. Error | | 3.0 | 5.0 | 40.0 |
| Samp. Size | | 144 | 55 | 2 |
| Females | | | | |
| Ave. Length | | 639 | 654 | |
| Std. Error | | 2.2 | 3.4 | |
| Samp. Size | | 133 | 61 | |

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Appendix Table 36. District 115 commercial gillnet catch of chum salmon; length (mm) by sex, age, and sampling period, 1983
 (continued).

| | 02 | 03 | Age Group 04 | 05 |
|--------------------------------------|------|-----|-----------------|------|
| Period Number 3 (7/10/83 to 7/16/83) | | | | |
| Males | | | | |
| Ave. Length | 563 | 648 | 678 | 695 |
| Std. Error | 19.2 | 2.3 | 4.9 | --- |
| Samp. Size | 3 | 231 | 62 | 1 |
| Females | | | | |
| Ave. Length | 580 | 628 | 650 | 635 |
| Std. Error | 10.0 | 1.6 | 3.3 | 30.0 |
| Samp. Size | 2 | 308 | 77 | 2 |
| Period Number 4 (7/17/83 to 7/30/83) | | | | |
| Males | | | | |
| Ave. Length | 593 | 654 | 673 | 746 |
| Std. Error | 12.6 | 2.7 | 8.1 | --- |
| Samp. Size | 5 | 184 | 28 | 1 |
| Females | | | | |
| Ave. Length | 577 | 630 | 656 | 649 |
| Std. Error | 24.5 | 1.9 | 3.3 | 18.5 |
| Samp. Size | 2 | 195 | 42 | 2 |

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Appendix Table 36. District 115 commercial gillnet catch of chum salmon; length (mm) by sex, age, and sampling period, 1983
 (continued).

| | | | Age Group | | |
|----------------------|----------|-----------------------------|-----------|------|--|
| | 02 | 03 | 04 | 05 | |
| Period Number | 5 | (7/31/83 to 8/06/83) | | | |
| Males | | | | | |
| Ave. Length | 588 | 650 | 686 | | |
| Std. Error | 8.0 | 2.5 | 3.0 | | |
| Samp. Size | 12 | 203 | 103 | | |
| Females | | | | | |
| Ave. Length | 581 | 640 | 667 | 655 | |
| Std. Error | 10.2 | 2.5 | 2.8 | — | |
| Samp. Size | 7 | 137 | 101 | 1 | |
| Period Number | 6 | (8/07/83 to 8/13/83) | | | |
| Males | | | | | |
| Ave. Length | 609 | 660 | 687 | 675 | |
| Std. Error | 17.7 | 3.8 | 4.1 | 15.0 | |
| Samp. Size | 11 | 138 | 53 | 2 | |
| Females | | | | | |
| Ave. Length | 618 | 658 | 676 | | |
| Std. Error | 19.7 | 2.6 | 3.6 | | |
| Samp. Size | 5 | 206 | 98 | | |

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Appendix Table 36. District 115 commercial gillnet catch of chum salmon;
length (mm) by sex, age, and sampling period, 1983
(continued).

| | | Age Group | 02 | 03 | 04 | 05 |
|--|--|-----------|----|----|----|----|
|--|--|-----------|----|----|----|----|

Period Number 7 (8/14/83 to 8/20/83)

Males

| | | | | |
|-------------|------|-----|-----|-----|
| Ave. Length | 580 | 660 | 686 | 600 |
| Std. Error | 13.8 | 2.9 | 4.0 | --- |
| Samp. Size | 12 | 161 | 55 | 1 |

Females

| | | | | |
|-------------|-----|-----|-----|--|
| Ave. Length | 580 | 641 | 662 | |
| Std. Error | --- | 2.3 | 3.4 | |
| Samp. Size | 1 | 163 | 74 | |

Period Number 8 (8/21/83 to 8/27/83)

Males

| | | | | |
|-------------|------|-----|-----|-----|
| Ave. Length | 586 | 656 | 679 | 665 |
| Std. Error | 14.9 | 2.8 | 5.3 | --- |
| Samp. Size | 11 | 166 | 43 | 1 |

Females

| | | | | |
|-------------|-----|-----|-----|-----|
| Ave. Length | 578 | 646 | 672 | 685 |
| Std. Error | 9.7 | 2.4 | 3.6 | --- |
| Samp. Size | 12 | 173 | 49 | 1 |

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Appendix Table 36. District 115 commercial gillnet catch of chum salmon; length (mm) by sex, age, and sampling period, 1983
(continued).

| | | | Age Group | |
|---------------|------|----------------------|-----------|-----|
| | 02 | 03 | 04 | 05 |
| Period Number | 9 | (8/28/83 to 9/03/83) | | |
| Males | | | | |
| Ave. Length | 620 | 663 | 677 | 700 |
| Std. Error | 20.0 | 2.7 | 9.8 | — |
| Samp. Size | 2 | 117 | 17 | 1 |
| Females | | | | |
| Ave. Length | 605 | 657 | 675 | |
| Std. Error | — | 3.3 | 6.5 | |
| Samp. Size | 1 | 120 | 23 | |
| Period Number | 10 | (9/04/83 to 9/10/83) | | |
| Males | | | | |
| Ave. Length | 618 | 669 | 694 | |
| Std. Error | 9.2 | 3.4 | 8.1 | |
| Samp. Size | 10 | 145 | 22 | |
| Females | | | | |
| Ave. Length | 638 | 661 | 680 | |
| Std. Error | 31.1 | 2.4 | 7.3 | |
| Samp. Size | 3 | 143 | 16 | |

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Appendix Table 36. District 115 commercial gillnet catch of chum salmon; length (mm) by sex, age, and sampling period, 1983
 (continued).

| | 02 | 03 | Age Group 04 | 05 |
|----------------|------|-----------------------|-----------------|------|
| Period Number | 11 | (9/11/83 to 9/24/83) | | |
| Males | | | | |
| Ave. Length | 637 | 663 | 695 | |
| Std. Error | 4.6 | 2.5 | 5.6 | |
| Samp. Size | 5 | 155 | 30 | |
| Females | | | | |
| Ave. Length | 610 | 654 | 668 | 645 |
| Std. Error | 10.0 | 1.6 | 3.6 | 10.0 |
| Samp. Size | 3 | 205 | 53 | 2 |
| Period Number | 12 | (9/25/83 to 10/01/83) | | |
| Males | | | | |
| Ave. Length | 602 | 657 | 690 | |
| Std. Error | 6.8 | 4.4 | 12.9 | |
| Samp. Size | 9 | 75 | 13 | |
| Females | | | | |
| Ave. Length | 593 | 655 | 672 | |
| Std. Error | 4.9 | 2.4 | 6.4 | |
| Samp. Size | 5 | 150 | 29 | |

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Appendix Table 36. District 115 commercial gillnet catch of chum salmon; length (mm) by sex, age, and sampling period, 1983
(continued).

| | 02 | 03 | Age Group 04 | 05 |
|---|------|-----|-----------------|----|
| Period Number 13 (10/02/83 to 10/08/83) | | | | |
| Males | | | | |
| Ave. Length | 614 | 661 | 691 | |
| Std. Error | 12.4 | 2.9 | 6.5 | |
| Samp. Size | 7 | 119 | 20 | |
| Females | | | | |
| Ave. Length | 633 | 656 | 689 | |
| Std. Error | 7.5 | 2.6 | 5.3 | |
| Samp. Size | 2 | 115 | 32 | |
| Period Number 14 (10/09/83 to 10/15/83) | | | | |
| Males | | | | |
| Ave. Length | 612 | 664 | 687 | |
| Std. Error | 4.9 | 4.5 | 4.3 | |
| Samp. Size | 14 | 69 | 30 | |
| Females | | | | |
| Ave. Length | 619 | 646 | 675 | |
| Std. Error | 6.8 | 2.4 | 4.9 | |
| Samp. Size | 8 | 112 | 40 | |

Appendix Table 37. Annette Island commercial trap catch of chum salmon; age and sex composition by sampling period, 1983.

| | 01 | 02 | 03 | Age Group 04 | 05 | Total |
|--|-----|-----|------|-----------------|-----|-------|
| Combined Periods (7/03/83 to 9/03/83) | | | | | | |
| Male | | | | | | |
| Sample Number | 0 | 0 | 12 | 0 | 0 | 12 |
| Percent | 0.0 | 0.0 | 26.1 | 0.0 | 0.0 | 54.5 |
| Std. Error | 0.0 | 0.0 | 6.5 | 0.0 | 0.0 | 10.9 |
| Number | 0 | 0 | 463 | 0 | 0 | 463 |
| Female | | | | | | |
| Sample Number | 0 | 2 | 8 | 0 | 0 | 10 |
| Percent | 0.0 | 4.3 | 17.4 | 0.0 | 0.0 | 45.5 |
| Std. Error | 0.0 | 3.0 | 5.7 | 0.0 | 0.0 | 10.9 |
| Number | 0 | 77 | 309 | 0 | 0 | 386 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 3 | 33 | 10 | 0 | 46 |
| Percent | 0.0 | 6.5 | 71.7 | 21.8 | 0.0 | 100.0 |
| Std. Error | 0.0 | 3.7 | 6.7 | 6.2 | 0.0 | — |
| Number | 0 | 116 | 1274 | 386 | 0 | 1776 |

Appendix Table 38. Annette Island commercial fish trap catch of chum salmon; length (mm) by sex, age, and sampling period, 1983.

| | 02 | 03 | Age Group 04 | 05 |
|---------------------------------------|------|------|-----------------|----|
| Combined Periods (7/03/83 to 9/03/83) | | | | |
| Males | | | | |
| Ave. Length | | 701 | | |
| Std. Error | | 17.9 | | |
| Samp. Size | | 12 | | |
| Females | | | | |
| Ave. Length | 640 | 682 | | |
| Std. Error | 35.0 | 17.5 | | |
| Samp. Size | 2 | 8 | | |

Appendix Table 39. Stikine River Canadian commercial gillnet catch of chum salmon; age and sex composition by sampling period, 1983.

| | | Age Group | | | | | |
|----------------|-----|-----------------------|------|------|-----|-------|--|
| | 01 | 02 | 03 | 04 | 05 | Total | |
| Period Number | 1 | (6/13/83 to 10/08/83) | | | | | |
| Male | | | | | | | |
| Sample Number | 0 | 5 | 55 | 10 | 0 | 70 | |
| Percent | 0.0 | 5.2 | 56.7 | 10.3 | 0.0 | 72.2 | |
| Std. Error | 0.0 | 2.3 | 5.1 | 3.1 | 0.0 | 4.6 | |
| Number | 0 | 14 | 155 | 28 | 0 | 198 | |
| Female | | | | | | | |
| Sample Number | 0 | 1 | 20 | 6 | 0 | 27 | |
| Percent | 0.0 | 1.0 | 20.6 | 6.2 | 0.0 | 27.8 | |
| Std. Error | 0.0 | 1.0 | 4.1 | 2.5 | 0.0 | 4.6 | |
| Number | 0 | 3 | 56 | 17 | 0 | 76 | |
| Sexes Combined | | | | | | | |
| Sample Number | 0 | 6 | 75 | 16 | 0 | 97 | |
| Percent | 0.0 | 6.2 | 77.3 | 16.5 | 0.0 | 100.0 | |
| Std. Error | 0.0 | 2.5 | 4.3 | 3.8 | 0.0 | — | |
| Number | 0 | 17 | 212 | 45 | 0 | 274 | |

Appendix Table 40. Stikine River Canadian commercial gillnet catch of chum salmon; length (mm) by sex, age, and sampling period, 1983.

| | 02 | 03 | Age Group 04 | 05 |
|--|-----|-----|-----------------|----|
| Combined periods (6/13/83 to 10/08/83) | | | | |
| Males | | | | |
| Ave. Length | 591 | 663 | 690 | |
| Std. Error | 7.3 | 6.2 | 7.5 | |
| Samp. Size | 5 | 55 | 10 | |
| Females | | | | |
| Ave. Length | 600 | 639 | 637 | |
| Std. Error | — | 9.1 | 25.9 | |
| Samp. Size | 1 | 20 | 6 | |

Appendix Table 41. Taku River Canadian commercial gillnet catch of chum salmon;
age and sex composition by sampling period, 1983.

| | Age Group | | | | | |
|----------------|-----------|-----------------------|------|------|-----|-------|
| | 01 | 02 | 03 | 04 | 05 | Total |
| Period Number | 1 | (6/13/83 to 10/08/83) | | | | |
| Male | | | | | | |
| Sample Number | 0 | 2 | 113 | 36 | 0 | 151 |
| Percent | 0.0 | 0.8 | 47.5 | 15.1 | 0.0 | 63.4 |
| Std. Error | 0.0 | 0.6 | 3.2 | 2.3 | 0.0 | 3.1 |
| Number | 0 | 15 | 836 | 266 | 0 | 1117 |
| Female | | | | | | |
| Sample Number | 0 | 1 | 55 | 31 | 0 | 87 |
| Percent | 0.0 | 0.4 | 23.1 | 13.0 | 0.0 | 36.6 |
| Std. Error | 0.0 | 0.4 | 2.7 | 2.2 | 0.0 | 3.1 |
| Number | 0 | 7 | 407 | 229 | 0 | 643 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 3 | 168 | 67 | 0 | 238 |
| Percent | 0.0 | 1.3 | 70.6 | 28.2 | 0.0 | 100.0 |
| Std. Error | 0.0 | 0.7 | 3.0 | 2.9 | 0.0 | — |
| Number | 0 | 22 | 1242 | 495 | 0 | 1760 |

Appendix Table 42. Taku River Canadian commercial gillnet catch of chum salmon; length (mm) by sex, age, and sampling period, 1983.

| | 02 | 03 | Age Group 04 | 05 |
|------------------|-----------------------|-----|-----------------|----|
| Combined Periods | (6/13/83 to 10/08/83) | | | |
| Males | | | | |
| Ave. Length | 508 | 565 | 586 | |
| Std. Error | 7.5 | 2.5 | 5.5 | |
| Samp. Size | 2 | 113 | 36 | |
| Females | | | | |
| Ave. Length | 492 | 544 | 563 | |
| Std. Error | --- | 3.5 | 5.1 | |
| Samp. Size | 1 | 55 | 31 | |

Appendix Table 43. Beaver Falls Hatchery escapement of chum salmon; age and sex composition by sampling period, 1983.

| | 01 | 02 | 03 | Age Group 04 | 05 | Total |
|-------------------------|-----|------|------|-----------------|-----|-------|
| Combined Samples | | | | | | |
| Male | | | | | | |
| Sample Number | 0 | 88 | 99 | 68 | 0 | 255 |
| Percent | 0.0 | 22.2 | 24.9 | 17.1 | 0.0 | 64.2 |
| Std. Error | 0.0 | 2.1 | 2.2 | 1.9 | 0.0 | 2.4 |
| Female | | | | | | |
| Sample Number | 0 | 44 | 65 | 33 | 0 | 142 |
| Percent | 0.0 | 11.1 | 16.4 | 8.3 | 0.0 | 35.8 |
| Std. Error | 0.0 | 1.6 | 1.9 | 1.4 | 0.0 | 2.4 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 132 | 164 | 101 | 0 | 397 |
| Percent | 0.0 | 33.2 | 41.3 | 25.4 | 0.0 | 100.0 |
| Std. Error | 0.0 | 2.4 | 2.5 | 2.2 | 0.0 | — |

Appendix Table 44. Beaver Falls Hatchery escapement of chum salmon; length (mm) by sex, age, and sampling period, 1983.

| | 02 | 03 | Age Group 04 | 05 |
|-------------------------|-----|-----|-----------------|----|
| Combined Samples | | | | |
| Males | | | | |
| Ave. Length | 585 | 631 | 664 | |
| Std. Error | 3.2 | 3.2 | 4.1 | |
| Samp. Size | 88 | 99 | 68 | |
| Females | | | | |
| Ave. Length | 591 | 639 | 664 | |
| Std. Error | 3.7 | 3.6 | 4.1 | |
| Samp. Size | 44 | 65 | 33 | |

Appendix Table 45. Stikine River Canadian fishwheel catch of chum salmon; age and sex composition by sampling period, 1983.

| | 01 | 02 | 03 | 04 | 05 | Age Group Total |
|-------------------------|-----|-----|------|------|-----|--------------------|
| Combined Samples | | | | | | |
| Male | | | | | | |
| Sample Number | 0 | 2 | 15 | 3 | 1 | 21 |
| Percent | 0.0 | 4.4 | 33.3 | 6.7 | 2.2 | 46.7 |
| Std. Error | 0.0 | 3.1 | 7.1 | 3.8 | 2.2 | 7.6 |
| Female | | | | | | |
| Sample Number | 0 | 0 | 19 | 3 | 1 | 23 |
| Percent | 0.0 | 0.0 | 42.2 | 6.7 | 2.2 | 51.1 |
| Std. Error | 0.0 | 0.0 | 7.4 | 3.8 | 2.2 | 7.6 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 2 | 34 | 6 | 3 | 45 |
| Percent | 0.0 | 4.4 | 75.6 | 13.3 | 6.7 | 100.0 |
| Std. Error | 0.0 | 3.1 | 6.5 | 5.1 | 3.8 | — |

Appendix Table 46. Stikine River Canadian fishwheel catch of chum salmon; length (mm) by sex, age, and sampling period, 1983.

| | 02 | 03 | Age Group 04 | 05 |
|-------------------------|------|------|-----------------|-----|
| Combined Samples | | | | |
| Males | | | | |
| Ave. Length | 603 | 672 | 661 | 760 |
| Std. Error | 17.5 | 11.7 | 39.2 | — |
| Samp. Size | 2 | 15 | 3 | 1 |
| Females | | | | |
| Ave. Length | | 628 | 612 | 660 |
| Std. Error | | 8.5 | 27.7 | — |
| Samp. Size | | 18 | 3 | 1 |

Appendix Table 47. Farragut River escapement of chum salmon; age and sex composition by sampling period, 1983.

| | 01 | 02 | 03 | Age Group 04 | 05 | Total |
|-------------------------|-----|-----|------|-----------------|-----|-------|
| Combined Samples | | | | | | |
| Male | | | | | | |
| Sample Number | 0 | 0 | 21 | 4 | 0 | 25 |
| Percent | 0.0 | 0.0 | 61.8 | 11.8 | 0.0 | 73.5 |
| Std. Error | 0.0 | 0.0 | 8.5 | 5.6 | 0.0 | 7.7 |
| Female | | | | | | |
| Sample Number | 0 | 0 | 8 | 1 | 0 | 9 |
| Percent | 0.0 | 0.0 | 23.5 | 2.9 | 0.0 | 26.5 |
| Std. Error | 0.0 | 0.0 | 7.4 | 2.9 | 0.0 | 7.7 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 0 | 29 | 5 | 0 | 34 |
| Percent | 0.0 | 0.0 | 85.3 | 14.7 | 0.0 | 100.0 |
| Std. Error | 0.0 | 0.0 | 6.2 | 6.2 | 0.0 | — |

Appendix Table 48. Farragut River escapement of chum salmon; length (mm) by sex, age, and sampling period, 1983.

| | 02 | 03 | Age Group 04 | 05 |
|-------------------------|----|-----|-----------------|----|
| Combined Samples | | | | |
| Males | | | | |
| Ave. Length | | 653 | 713 | |
| Std. Error | | 7.9 | 20.9 | |
| Samp. Size | | 21 | 4 | |
| Females | | | | |
| Ave. Length | | 618 | 620 | |
| Std. Error | | 9.4 | — | |
| Samp. Size | | 8 | 1 | |

Appendix Table 49. Montana Creek escapement of chum salmon; age and sex composition by sampling period, 1983.

| | 01 | 02 | 03 | Age Group 04 | 05 | Total |
|-------------------------|-----|-----|------|-----------------|-----|-------|
| Combined Samples | | | | | | |
| Male | | | | | | |
| Sample Number | 0 | 0 | 112 | 21 | 2 | 135 |
| Percent | 0.0 | 0.0 | 30.0 | 5.6 | 0.5 | 36.2 |
| Std. Error | 0.0 | 0.0 | 2.4 | 1.2 | 0.4 | 2.5 |
| Female | | | | | | |
| Sample Number | 0 | 0 | 179 | 59 | 0 | 238 |
| Percent | 0.0 | 0.0 | 48.0 | 15.8 | 0.0 | 63.8 |
| Std. Error | 0.0 | 0.0 | 2.6 | 1.9 | 0.0 | 2.5 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 0 | 291 | 80 | 2 | 373 |
| Percent | 0.0 | 0.0 | 78.0 | 21.4 | 0.5 | 100.0 |
| Std. Error | 0.0 | 0.0 | 2.1 | 2.1 | 0.4 | — |

Appendix Table 50. Montana Creek escapement of chum salmon; length (mm) by sex, age, and sampling period, 1983.

| | 02 | 03 | Age Group 04 | 05 |
|-------------------------|----|-----|-----------------|------|
| Combined Samples | | | | |
| Males | | | | |
| Ave. Length | | 660 | 670 | 673 |
| Std. Error | | 3.4 | 8.4 | 17.5 |
| Samp. Size | | 112 | 21 | 2 |
| Females | | | | |
| Ave. Length | | 634 | 650 | |
| Std. Error | | 2.0 | 4.2 | |
| Samp. Size | | 165 | 55 | |

Appendix Table 51. Snettisham River escapement of chum salmon; age and sex composition by sampling period, 1983.

| | | | Age Group | | | |
|-------------------------|-----|-----|-----------|------|-----|-------|
| | 01 | 02 | 03 | 04 | 05 | Total |
| Combined Samples | | | | | | |
| Male | | | | | | |
| Sample Number | 0 | 24 | 250 | 115 | 1 | 390 |
| Percent | 0.0 | 3.5 | 36.8 | 16.9 | 0.1 | 57.4 |
| Std. Error | 0.0 | 0.7 | 1.9 | 1.4 | 0.1 | 1.9 |
| Female | | | | | | |
| Sample Number | 0 | 8 | 210 | 71 | 1 | 290 |
| Percent | 0.0 | 1.2 | 30.9 | 10.4 | 0.1 | 42.6 |
| Std. Error | 0.0 | 0.4 | 1.8 | 1.2 | 0.1 | 1.9 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 32 | 460 | 186 | 2 | 680 |
| Percent | 0.0 | 4.7 | 67.6 | 27.4 | 0.3 | 100.0 |
| Std. Error | 0.0 | 0.8 | 1.8 | 1.7 | 0.2 | — |

Appendix Table 52. Snettisham River escapement of chum salmon; length (mm) by sex, age, and sampling period, 1983.

| | 02 | 03 | Age Group | |
|-------------------------|------|-----|-----------|-----|
| | | | 04 | 05 |
| Combined Samples | | | | |
| Males | | | | |
| Ave. Length | 578 | 659 | 678 | 623 |
| Std. Error | 9.2 | 2.4 | 3.3 | --- |
| Samp. Size | 24 | 250 | 115 | 1 |
| Females | | | | |
| Ave. Length | 574 | 629 | 655 | 772 |
| Std. Error | 11.7 | 2.1 | 3.8 | --- |
| Samp. Size | 8 | 210 | 71 | 1 |

Appendix Table 53. Hidden Falls Hatchery escapement of chum salmon; age and sex composition by sampling period, 1983.

| | | | Age Group | |
|-----------------|----------------------|------|-----------|-------|
| | 02 | 03 | 04 | Total |
| Period Number 1 | (7/17/83 to 7/30/83) | | | |
| Male | | | | |
| Sample Number | 30 | 357 | 95 | 482 |
| Percent | 3.5 | 41.1 | 10.9 | 55.5 |
| Std. Error | 0.6 | 1.7 | 1.1 | 1.7 |
| Female | | | | |
| Sample Number | 8 | 283 | 95 | 386 |
| Percent | 0.9 | 32.6 | 10.9 | 44.5 |
| Std. Error | 0.3 | 1.6 | 1.1 | 1.7 |
| Sexes Combined | | | | |
| Sample Number | 38 | 640 | 190 | 868 |
| Percent | 4.4 | 73.7 | 21.9 | 100.0 |
| Std. Error | 0.7 | 1.5 | 1.4 | — |
| Period Number 2 | (7/31/83 to 8/06/83) | | | |
| Male | | | | |
| Sample Number | 36 | 201 | 14 | 251 |
| Percent | 6.1 | 33.9 | 2.4 | 42.3 |
| Std. Error | 1.0 | 1.9 | 0.6 | 2.0 |
| Female | | | | |
| Sample Number | 14 | 317 | 11 | 342 |
| Percent | 2.4 | 53.5 | 1.9 | 57.7 |
| Std. Error | 0.6 | 2.0 | 0.6 | 2.0 |
| Sexes Combined | | | | |
| Sample Number | 50 | 518 | 25 | 593 |
| Percent | 8.4 | 87.4 | 4.2 | 100.0 |
| Std. Error | 1.1 | 1.4 | 0.8 | — |

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Appendix Table 53. Hidden Falls Hatchery escapement of chum salmon; age and sex composition by sampling period, 1983 (continued).

| Period Number | 3 | Age Group | | | Total | |
|---|------|-----------|-----|----|-------|--|
| | | 02 | 03 | 04 | | |
| Period Number 3 (8/07/83 to 8/27/83) | | | | | | |
| Male | | | | | | |
| Sample Number | 107 | 272 | 4 | | 383 | |
| Percent | 12.4 | 31.6 | 0.5 | | 44.5 | |
| Std. Error | 1.1 | 1.6 | 0.2 | | 1.7 | |
| Female | | | | | | |
| Sample Number | 50 | 419 | 9 | | 478 | |
| Percent | 5.8 | 48.7 | 1.0 | | 55.5 | |
| Std. Error | 0.8 | 1.7 | 0.3 | | 1.7 | |
| Sexes Combined | | | | | | |
| Sample Number | 157 | 691 | 13 | | 861 | |
| Percent | 18.2 | 80.3 | 1.5 | | 100.0 | |
| Std. Error | 1.3 | 1.4 | 0.4 | | — | |
| Combined Periods | | | | | | |
| Male | | | | | | |
| Sample Number | 173 | 830 | 113 | | 1116 | |
| Percent | 7.3 | 35.5 | 4.6 | | 47.4 | |
| Std. Error | 0.5 | 1.0 | 0.4 | | 1.0 | |
| Female | | | | | | |
| Sample Number | 72 | 1019 | 115 | | 1206 | |
| Percent | 3.0 | 44.9 | 4.6 | | 52.6 | |
| Std. Error | 0.4 | 1.0 | 0.4 | | 1.0 | |
| Sexes Combined | | | | | | |
| Sample Number | 245 | 1849 | 228 | | 2322 | |
| Percent | 10.3 | 80.4 | 9.2 | | 100.0 | |
| Std. Error | 0.6 | 0.8 | 0.6 | | — | |

Appendix Table 54. Hidden Falls Hatchery escapement of chum salmon; length (mm) by sex, age, and sampling period, 1983.

| | Age Group | 01 | 02 | 03 | 04 |
|---|-----------|------|----|-----|-----|
| Period Number 1 (7/17/83 to 7/30/83) | | | | | |
| Males | | | | | |
| Ave. Length | | 576 | | 659 | 682 |
| Std. Error | | 30.8 | | 5.7 | 9.7 |
| Samp. Size | | 4 | | 75 | 31 |
| Females | | | | | |
| Ave. Length | | 670 | | 654 | 664 |
| Std. Error | | — | | 4.0 | 4.6 |
| Samp. Size | | 1 | | 48 | 35 |
| Period Number 2 (7/31/83 to 8/06/83) | | | | | |
| Males | | | | | |
| Ave. Length | | 566 | | 645 | |
| Std. Error | | 9.6 | | 7.0 | |
| Samp. Size | | 12 | | 39 | |
| Females | | | | | |
| Ave. Length | | 602 | | 636 | |
| Std. Error | | 14.5 | | 5.1 | |
| Samp. Size | | 3 | | 28 | |

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Appendix Table 54. Hidden Falls Hatchery escapement of chum salmon; length (mm) by sex, age, and sampling period, 1983 (continued).

| | 01 | 02 | Age Group 03 | 04 |
|--------------------------------------|----|-----|-----------------|----|
| Period Number 3 (8/07/83 to 8/27/83) | | | | |
| Males | | | | |
| Ave. Length | | 571 | 619 | |
| Std. Error | | 9.2 | 5.1 | |
| Samp. Size | | 20 | 50 | |
| Females | | | | |
| Ave. Length | | 574 | 618 | |
| Std. Error | | 9.5 | 2.7 | |
| Samp. Size | | 12 | 87 | |

Appendix Table 55. Kadashan River escapement of chum salmon; age and sex composition by sampling period, 1983.

| | 01 | 02 | 03 | 04 | 05 | Age Group Total |
|-------------------------|-----|-----|------|------|-----|--------------------|
| Combined Samples | | | | | | |
| Male | | | | | | |
| Sample Number | 0 | 11 | 154 | 21 | 1 | 187 |
| Percent | 0.0 | 3.0 | 41.6 | 5.7 | 0.3 | 50.5 |
| Std. Error | 0.0 | 0.9 | 2.6 | 1.2 | 0.3 | 2.6 |
| Female | | | | | | |
| Sample Number | 0 | 6 | 136 | 39 | 2 | 183 |
| Percent | 0.0 | 1.6 | 36.8 | 10.5 | 0.5 | 49.5 |
| Std. Error | 0.0 | 0.7 | 2.5 | 1.6 | 0.4 | 2.6 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 17 | 290 | 60 | 3 | 370 |
| Percent | 0.0 | 4.6 | 78.4 | 16.2 | 0.8 | 100.0 |
| Std. Error | 0.0 | 1.1 | 2.1 | 1.9 | 0.5 | — |

Appendix Table 56. Kadashan River escapement of chum salmon; length (mm) by sex, age, and sampling period, 1983.

| | 02 | 03 | Age Group 04 | 05 |
|-------------------------|------|-----|-----------------|------|
| Combined Samples | | | | |
| Males | | | | |
| Ave. Length | 564 | 636 | 660 | 665 |
| Std. Error | 19.1 | 3.4 | 8.0 | --- |
| Samp. Size | 11 | 154 | 21 | 1 |
| Females | | | | |
| Ave. Length | 617 | 621 | 637 | 668 |
| Std. Error | 10.1 | 2.4 | 5.0 | 12.5 |
| Samp. Size | 6 | 136 | 39 | 2 |

Appendix Table 57. Neka River escapement of chum salmon; age and sex composition by sampling period, 1983.

| | 01 | 02 | 03 | 04 | 05 | Age Group Total |
|-------------------------|-----|-----|------|-----|-----|--------------------|
| Combined Samples | | | | | | |
| Male | | | | | | |
| Sample Number | 1 | 1 | 271 | 16 | 0 | 289 |
| Percent | 0.2 | 0.2 | 47.0 | 2.8 | 0.0 | 50.1 |
| Std. Error | 0.2 | 0.2 | 0.9 | 0.2 | 0.0 | 2.1 |
| Female | | | | | | |
| Sample Number | 0 | 2 | 257 | 27 | 2 | 288 |
| Percent | 0.0 | 0.3 | 44.5 | 4.7 | 0.3 | 49.9 |
| Std. Error | 0.0 | 0.2 | 2.1 | 0.9 | 0.2 | 2.1 |
| Sexes Combined | | | | | | |
| Sample Number | 1 | 3 | 528 | 43 | 2 | 577 |
| Percent | 0.2 | 0.5 | 91.5 | 7.5 | 0.3 | 100.0 |
| Std. Error | 0.2 | 0.3 | 1.2 | 1.1 | 0.2 | — |

Appendix Table 58. Neka River escapement of chum salmon; length (mm) by sex, age, and sampling period, 1983.

| | 02 | 03 | Age Group 04 | 05 |
|-------------------------|-----|-----|-----------------|------|
| Combined Samples | | | | |
| Males | | | | |
| Ave. Length | 550 | 648 | 688 | |
| Std. Error | — | 3.2 | 9.1 | |
| Samp. Size | 1 | 269 | 16 | |
| Females | | | | |
| Ave. Length | 635 | 637 | 668 | 652 |
| Std. Error | 0.0 | 1.8 | 5.8 | 24.0 |
| Samp. Size | 2 | 257 | 27 | 2 |

Appendix Table 59. Excursion River escapement of chum salmon; age and sex composition by sampling period, 1983.

| | 01 | 02 | 03 | 04 | 05 | Age Group Total |
|-------------------------|-----|-----|------|-----|-----|--------------------|
| Combined Samples | | | | | | |
| Male | | | | | | |
| Sample Number | 0 | 5 | 311 | 35 | 2 | 353 |
| Percent | 0.0 | 0.8 | 48.6 | 5.5 | 0.3 | 55.2 |
| Std. Error | 0.0 | 0.4 | 2.0 | 0.9 | 0.2 | 2.0 |
| Female | | | | | | |
| Sample Number | 0 | 10 | 252 | 25 | 0 | 287 |
| Percent | 0.0 | 1.6 | 39.4 | 3.9 | 0.0 | 44.8 |
| Std. Error | 0.0 | 0.5 | 1.9 | 0.8 | 0.0 | 2.0 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 15 | 563 | 60 | 2 | 640 |
| Percent | 0.0 | 2.3 | 88.0 | 9.4 | 0.3 | 100.0 |
| Std. Error | 0.0 | 0.6 | 1.3 | 1.2 | 0.2 | — |

Appendix Table 60. Excursion River escapement of chum salmon; length (mm) by sex, age, and sampling period, 1983.

| | 02 | 03 | Age Group 04 | 05 |
|-------------------------|------|-----|-----------------|------|
| Combined Samples | | | | |
| Males | | | | |
| Ave. Length | 598 | 661 | 669 | 715 |
| Std. Error | 17.6 | 1.8 | 5.4 | 15.0 |
| Samp. Size | 5 | 311 | 35 | 2 |
| Females | | | | |
| Ave. Length | 575 | 645 | 667 | |
| Std. Error | 5.9 | 1.8 | 4.8 | |
| Samp. Size | 10 | 252 | 25 | |

Appendix Table 61. Chilkat River escapement of chum salmon; age and sex composition by sampling period, 1983.

| | 01 | 02 | 03 | 04 | Age Group 05 | Total |
|-------------------------|-----|-----|------|------|-----------------|-------|
| Combined Samples | | | | | | |
| Male | | | | | | |
| Sample Number | 0 | 6 | 120 | 20 | 0 | 146 |
| Percent | 0.0 | 2.3 | 46.5 | 7.8 | 0.0 | 56.6 |
| Std. Error | 0.0 | 0.9 | 3.1 | 1.7 | 0.0 | 3.1 |
| Female | | | | | | |
| Sample Number | 0 | 5 | 83 | 24 | 0 | 112 |
| Percent | 0.0 | 1.9 | 32.2 | 9.3 | 0.0 | 43.4 |
| Std. Error | 0.0 | 0.9 | 2.9 | 1.8 | 0.0 | 3.1 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 11 | 203 | 44 | 0 | 258 |
| Percent | 0.0 | 4.3 | 78.7 | 17.1 | 0.0 | 100.0 |
| Std. Error | 0.0 | 1.3 | 2.6 | 2.3 | 0.0 | — |

Appendix Table 62. Chilkat River escapement of chum salmon; length (mm) by sex, age, and sampling period, 1983.

| | 02 | 03 | Age Group 04 | 05 |
|-------------------------|------|-----|-----------------|----|
| Combined Samples | | | | |
| Males | | | | |
| Ave. Length | 538 | 589 | 610 | |
| Std. Error | 17.1 | 2.6 | 7.0 | |
| Samp. Size | 6 | 120 | 20 | |
| Females | | | | |
| Ave. Length | 533 | 559 | 583 | |
| Std. Error | 8.7 | 2.8 | 4.5 | |
| Samp. Size | 5 | 83 | 24 | |

Appendix Table 63. Herman River escapement of chum salmon; age and sex composition by sampling period, 1983.

| | 01 | 02 | 03 | Age Group 04 | 05 | Total |
|-------------------------|-----|-----|------|-----------------|-----|-------|
| Combined Samples | | | | | | |
| Male | | | | | | |
| Sample Number | 0 | 2 | 34 | 13 | 0 | 49 |
| Percent | 0.0 | 1.5 | 25.2 | 9.6 | 0.0 | 36.3 |
| Std. Error | 0.0 | 1.1 | 3.8 | 2.5 | 0.0 | 4.2 |
| Female | | | | | | |
| Sample Number | 0 | 8 | 54 | 24 | 0 | 86 |
| Percent | 0.0 | 5.9 | 40.0 | 17.8 | 0.0 | 63.7 |
| Std. Error | 0.0 | 2.0 | 4.2 | 3.3 | 0.0 | 4.2 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 10 | 88 | 37 | 0 | 135 |
| Percent | 0.0 | 7.4 | 65.2 | 27.4 | 0.0 | 100.0 |
| Std. Error | 0.0 | 2.3 | 4.1 | 3.9 | 0.0 | — |

Appendix Table 64. Herman River escapement of chum salmon; length (mm) by sex, age, and sampling period, 1983.

| | 02 | 03 | Age Group 04 | 05 |
|-------------------------|------|-----|-----------------|----|
| Combined Samples | | | | |
| Males | | | | |
| Ave. Length | 575 | 649 | 655 | |
| Std. Error | 10.0 | 5.3 | 11.5 | |
| Samp. Size | 2 | 34 | 13 | |
| Females | | | | |
| Ave. Length | 576 | 622 | 637 | |
| Std. Error | 13.3 | 4.1 | 7.1 | |
| Samp. Size | 8 | 54 | 24 | |

Appendix Table 65. Kleheni River escapement of chum salmon; age and sex composition by sampling period, 1983.

| | 01 | 02 | 03 | Age Group 04 | 05 | Total |
|-------------------------|-----|-----|------|-----------------|-----|-------|
| Combined Samples | | | | | | |
| Male | | | | | | |
| Sample Number | 0 | 9 | 246 | 145 | 0 | 400 |
| Percent | 0.0 | 1.0 | 26.1 | 15.4 | 0.0 | 42.5 |
| Std. Error | 0.0 | 0.3 | 1.4 | 1.2 | 0.0 | 1.6 |
| Female | | | | | | |
| Sample Number | 0 | 14 | 331 | 194 | 2 | 541 |
| Percent | 0.0 | 1.5 | 35.2 | 20.6 | 0.2 | 57.5 |
| Std. Error | 0.0 | 0.4 | 1.6 | 1.3 | 0.1 | 1.6 |
| Sexes Combined | | | | | | |
| Sample Number | 0 | 23 | 577 | 339 | 2 | 941 |
| Percent | 0.0 | 2.4 | 61.3 | 36.0 | 0.2 | 100.0 |
| Std. Error | 0.0 | 0.5 | 1.6 | 1.6 | 0.1 | — |

Appendix Table 66. Kleheni River escapement of chum salmon; length (mm) by sex, age, and sampling period, 1983.

| | 02 | 03 | Age Group 04 | 05 |
|-------------------------|------|-----|-----------------|-----|
| Combined Samples | | | | |
| Males | | | | |
| Ave. Length | 608 | 655 | 685 | |
| Std. Error | 14.3 | 2.0 | 2.5 | |
| Samp. Size | 9 | 246 | 145 | |
| Females | | | | |
| Ave. Length | 601 | 632 | 657 | 665 |
| Std. Error | 8.0 | 1.7 | 1.9 | 5.0 |
| Samp. Size | 14 | 331 | 194 | 2 |

Appendix Table 67. Daily and cumulative chum salmon counts from Naha River weir, 1983.

| Date | Daily Count | Cumulative Count | Daily Percent of Total | Cumulative Percent |
|---------|-------------|------------------|------------------------|--------------------|
| July 18 | 1 | 1 | 0.45 | 0.45 |
| July 19 | 0 | 1 | 0.00 | 0.45 |
| July 20 | 0 | 1 | 0.00 | 0.45 |
| July 21 | 0 | 1 | 0.00 | 0.45 |
| July 22 | 0 | 1 | 0.00 | 0.45 |
| July 23 | 0 | 1 | 0.00 | 0.45 |
| July 24 | 0 | 1 | 0.00 | 0.45 |
| July 25 | 0 | 1 | 0.00 | 0.45 |
| July 26 | 0 | 1 | 0.00 | 0.45 |
| July 27 | 0 | 1 | 0.00 | 0.45 |
| July 28 | 1 | 2 | 0.45 | 0.91 |
| July 29 | 2 | 4 | 0.91 | 1.82 |
| July 30 | 0 | 4 | 0.00 | 1.82 |
| July 31 | 3 | 7 | 1.36 | 3.18 |
| Aug. 1 | 11 | 18 | 5.00 | 8.18 |
| Aug. 2 | 6 | 24 | 2.73 | 10.91 |
| Aug. 3 | 4 | 28 | 1.82 | 12.73 |
| Aug. 4 | 3 | 31 | 1.36 | 14.09 |
| Aug. 5 | 15 | 46 | 6.82 | 20.91 |
| Aug. 6 | 0 | 46 | 0.00 | 20.91 |
| Aug. 7 | 10 | 56 | 4.55 | 25.45 |
| Aug. 8 | 7 | 63 | 3.18 | 28.64 |
| Aug. 9 | 11 | 74 | 5.00 | 33.64 |
| Aug. 10 | 1 | 75 | 0.45 | 34.09 |
| Aug. 11 | 0 | 75 | 0.00 | 34.09 |
| Aug. 12 | 0 | 75 | 0.00 | 34.09 |
| Aug. 13 | 1 | 76 | 0.45 | 34.55 |
| Aug. 14 | 9 | 85 | 4.09 | 38.64 |
| Aug. 15 | 15 | 100 | 6.82 | 45.45 |
| Aug. 16 | 20 | 120 | 9.09 | 54.55 |
| Aug. 17 | 14 | 134 | 6.36 | 60.91 |
| Aug. 18 | 29 | 163 | 13.18 | 74.09 |
| Aug. 19 | 0 | 163 | 0.00 | 74.09 |
| Aug. 20 | 8 | 171 | 3.64 | 77.73 |
| Aug. 21 | 32 | 203 | 14.55 | 92.27 |
| Aug. 22 | 13 | 216 | 5.91 | 98.18 |
| Aug. 23 | 3 | 219 | 1.36 | 99.55 |
| Aug. 24 | 0 | 219 | 0.00 | 99.55 |
| Aug. 25 | 0 | 219 | 0.00 | 99.55 |
| Aug. 26 | 1 | 220 | 0.45 | 100.00 |

Mean day of migration = Aug. 14 Variance = 52.7 Day²

Appendix Table 68. Daily and cumulative chum salmon counts from Tamgas Creek weir, 1983.

| Date | Daily Count | Cumulative Count | Daily Percent of Total | Cumulative Percent |
|----------|-------------|------------------|------------------------|--------------------|
| Aug. 24 | 1 | 1 | 0.09 | 0.09 |
| Aug. 25 | 0 | 1 | 0.00 | 0.09 |
| Aug. 26 | 0 | 1 | 0.00 | 0.09 |
| Aug. 27 | 0 | 1 | 0.00 | 0.09 |
| Aug. 28 | 0 | 1 | 0.00 | 0.09 |
| Aug. 29 | 0 | 1 | 0.00 | 0.09 |
| Aug. 30 | 0 | 1 | 0.00 | 0.09 |
| Aug. 31 | 0 | 1 | 0.00 | 0.09 |
| Sept. 1 | 1 | 2 | 0.09 | 0.19 |
| Sept. 2 | 0 | 2 | 0.00 | 0.19 |
| Sept. 3 | 0 | 2 | 0.00 | 0.19 |
| Sept. 4 | 0 | 2 | 0.00 | 0.19 |
| Sept. 5 | 1 | 3 | 0.09 | 0.28 |
| Sept. 6 | 0 | 3 | 0.00 | 0.28 |
| Sept. 7 | 4 | 7 | 0.38 | 0.66 |
| Sept. 8 | 7 | 14 | 0.66 | 1.32 |
| Sept. 9 | 4 | 18 | 0.38 | 1.69 |
| Sept. 10 | 7 | 25 | 0.66 | 2.35 |
| Sept. 11 | 12 | 37 | 1.13 | 3.48 |
| Sept. 12 | 11 | 48 | 1.04 | 4.52 |
| Sept. 13 | 13 | 61 | 1.22 | 5.74 |
| Sept. 14 | 21 | 82 | 1.98 | 7.72 |
| Sept. 15 | 19 | 101 | 1.79 | 9.51 |
| Sept. 16 | 50 | 151 | 4.71 | 14.22 |
| Sept. 17 | 19 | 170 | 1.79 | 16.01 |
| Sept. 18 | 25 | 195 | 2.35 | 18.36 |
| Sept. 19 | 71 | 266 | 6.69 | 25.05 |
| Sept. 20 | 55 | 321 | 5.18 | 30.23 |
| Sept. 21 | 0 | 321 | 0.00 | 30.23 |
| Sept. 22 | 30 | 351 | 2.82 | 33.05 |
| Sept. 23 | 14 | 365 | 1.32 | 34.37 |
| Sept. 24 | 148 | 513 | 13.94 | 48.31 |
| Sept. 25 | 107 | 620 | 10.08 | 58.38 |
| Sept. 26 | 129 | 749 | 12.15 | 70.53 |
| Sept. 27 | 61 | 810 | 5.74 | 76.27 |
| Sept. 28 | 0 | 810 | 0.00 | 76.27 |
| Sept. 29 | 170 | 980 | 16.01 | 92.28 |
| Sept. 30 | 82 | 1062 | 7.72 | 100.00 |
| OCT. 1 | 0 | 1062 | 0.00 | 100.00 |

Mean Day of Migration = Sept. 23 Variance = 29.8 Days²

Appendix Table 69. Daily and cumulative chum salmon counts from Karta River weir, 1983.

| Date | Daily Count | Cumulative Count | Daily Percent of Total | Cumulative Percent |
|---------|-------------|------------------|------------------------|--------------------|
| July 13 | 1 | 1 | 0.01 | 0.01 |
| July 14 | 0 | 1 | 0.00 | 0.01 |
| July 15 | 0 | 1 | 0.00 | 0.01 |
| July 16 | 0 | 1 | 0.00 | 0.01 |
| July 17 | 0 | 1 | 0.00 | 0.01 |
| July 18 | 0 | 1 | 0.00 | 0.01 |
| July 19 | 0 | 1 | 0.00 | 0.01 |
| July 20 | 0 | 1 | 0.00 | 0.01 |
| July 21 | 0 | 1 | 0.00 | 0.01 |
| July 22 | 0 | 1 | 0.00 | 0.01 |
| July 23 | 0 | 1 | 0.00 | 0.01 |
| July 24 | 0 | 1 | 0.00 | 0.01 |
| July 25 | 0 | 1 | 0.00 | 0.01 |
| July 26 | 0 | 1 | 0.00 | 0.01 |
| July 27 | 0 | 1 | 0.00 | 0.01 |
| July 28 | 0 | 1 | 0.00 | 0.01 |
| July 29 | 0 | 1 | 0.00 | 0.01 |
| July 30 | 0 | 1 | 0.00 | 0.01 |
| July 31 | 0 | 1 | 0.00 | 0.01 |
| Aug. 1 | 1 | 2 | 0.01 | 0.03 |
| Aug. 2 | 0 | 2 | 0.00 | 0.03 |
| Aug. 3 | 0 | 2 | 0.00 | 0.03 |
| Aug. 4 | 1 | 3 | 0.01 | 0.04 |
| Aug. 5 | 0 | 3 | 0.00 | 0.04 |
| Aug. 6 | 0 | 3 | 0.00 | 0.04 |
| Aug. 7 | 0 | 3 | 0.00 | 0.04 |
| Aug. 8 | 0 | 3 | 0.00 | 0.04 |
| Aug. 9 | 2 | 5 | 0.03 | 0.07 |
| Aug. 10 | 0 | 5 | 0.00 | 0.07 |
| Aug. 11 | 0 | 5 | 0.00 | 0.07 |
| Aug. 12 | 0 | 5 | 0.00 | 0.07 |
| Aug. 13 | 1 | 6 | 0.01 | 0.09 |
| Aug. 14 | 1 | 7 | 0.01 | 0.10 |

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Appendix Table 69. Daily and cumulative chum salmon counts from Karta River weir, 1983 (continued).

| Date | Daily Count | Cumulative Count | Daily Percent of Total | Cumulative Percent |
|----------|-------------|------------------|------------------------|--------------------|
| Aug. 15 | 35 | 42 | 0.52 | 0.62 |
| Aug. 16 | 3 | 45 | 0.04 | 0.66 |
| Aug. 17 | 1 | 46 | 0.01 | 0.68 |
| Aug. 18 | 11 | 57 | 0.16 | 0.84 |
| Aug. 19 | 0 | 57 | 0.00 | 0.84 |
| Aug. 20 | 42 | 99 | 0.62 | 1.46 |
| Aug. 21 | 16 | 115 | 0.24 | 1.70 |
| Aug. 22 | 9 | 124 | 0.13 | 1.83 |
| Aug. 23 | 53 | 177 | 0.78 | 2.61 |
| Aug. 24 | 23 | 200 | 0.34 | 2.95 |
| Aug. 25 | 41 | 241 | 0.61 | 3.56 |
| Aug. 26 | 141 | 382 | 2.08 | 5.64 |
| Aug. 27 | 87 | 469 | 1.29 | 6.93 |
| Aug. 28 | 0 | 469 | 0.00 | 6.93 |
| Aug. 29 | 88 | 557 | 1.30 | 8.23 |
| Aug. 30 | 61 | 618 | 0.90 | 9.13 |
| Aug. 31 | 212 | 830 | 3.13 | 12.26 |
| Sept. 1 | 239 | 1069 | 3.53 | 15.79 |
| Sept. 2 | 348 | 1417 | 5.14 | 20.93 |
| Sept. 3 | 289 | 1706 | 4.27 | 25.20 |
| Sept. 4 | 599 | 2305 | 8.85 | 34.05 |
| Sept. 5 | 650 | 2955 | 9.60 | 43.65 |
| Sept. 6 | 1136 | 4091 | 16.78 | 60.44 |
| Sept. 7 | 565 | 4656 | 8.35 | 68.78 |
| Sept. 8 | 286 | 4942 | 4.23 | 73.01 |
| Sept. 9 | 822 | 5764 | 12.14 | 85.15 |
| Sept. 10 | 612 | 6376 | 9.04 | 94.19 |
| Sept. 11 | 393 | 6769 | 5.81 | 100.00 |

Mean day of Migration = Sept. 5 Variance = 22.4 Day²

Appendix Table 70. Daily and cumulative chum salmon counts from Klawock River weir, 1983.

| Date | Daily Count | Cumulative Count | Daily Percent of Total | Cumulative Percent |
|---------|-------------|------------------|------------------------|--------------------|
| July 31 | 2 | 2 | 0.22 | 0.22 |
| Aug. 1 | 0 | 2 | 0.00 | 0.22 |
| Aug. 2 | 0 | 2 | 0.00 | 0.22 |
| Aug. 3 | 0 | 2 | 0.00 | 0.22 |
| Aug. 4 | 0 | 2 | 0.00 | 0.22 |
| Aug. 5 | 0 | 2 | 0.00 | 0.22 |
| Aug. 6 | 0 | 2 | 0.00 | 0.22 |
| Aug. 7 | 0 | 2 | 0.00 | 0.22 |
| Aug. 8 | 0 | 2 | 0.00 | 0.22 |
| Aug. 9 | 0 | 2 | 0.00 | 0.22 |
| Aug. 10 | 0 | 2 | 0.00 | 0.22 |
| Aug. 11 | 0 | 2 | 0.00 | 0.22 |
| Aug. 12 | 0 | 2 | 0.00 | 0.22 |
| Aug. 13 | 0 | 2 | 0.00 | 0.22 |
| Aug. 14 | 10 | 12 | 1.12 | 1.34 |
| Aug. 15 | 20 | 32 | 2.23 | 3.57 |
| Aug. 16 | 9 | 41 | 1.00 | 4.58 |
| Aug. 17 | 4 | 45 | 0.45 | 5.02 |
| Aug. 18 | 2 | 47 | 0.22 | 5.25 |
| Aug. 19 | 15 | 62 | 1.67 | 6.92 |
| Aug. 20 | 6 | 68 | 0.67 | 7.59 |
| Aug. 21 | 0 | 68 | 0.00 | 7.59 |
| Aug. 22 | 2 | 70 | 0.22 | 7.81 |
| Aug. 23 | 9 | 79 | 1.00 | 8.82 |
| Aug. 24 | 15 | 94 | 1.67 | 10.49 |
| Aug. 25 | 14 | 108 | 1.56 | 12.05 |
| Aug. 26 | 16 | 124 | 1.79 | 13.84 |
| Aug. 27 | 25 | 149 | 2.79 | 16.63 |
| Aug. 28 | 9 | 158 | 1.00 | 17.63 |
| Aug. 29 | 15 | 173 | 1.67 | 19.31 |
| Aug. 30 | 1 | 174 | 0.11 | 19.42 |
| Aug. 31 | 1 | 175 | 0.11 | 19.53 |

-Continued-

Appendix Table 70. Daily and cumulative chum salmon counts from Klawock River weir, 1970 (continued).

| Date | Daily Count | Cumulative Count | Daily Percent of Total | Cumulative Percent |
|----------|-------------|------------------|------------------------|--------------------|
| Sept. 1 | 0 | 175 | 0.00 | 19.53 |
| Sept. 2 | 0 | 175 | 0.00 | 19.53 |
| Sept. 3 | 1 | 176 | 0.11 | 19.64 |
| Sept. 4 | 5 | 181 | 0.56 | 20.20 |
| Sept. 5 | 2 | 183 | 0.22 | 20.42 |
| Sept. 6 | 7 | 190 | 0.78 | 21.21 |
| Sept. 7 | 0 | 190 | 0.00 | 21.21 |
| Sept. 8 | 5 | 195 | 0.56 | 21.76 |
| Sept. 9 | 1 | 196 | 0.11 | 21.87 |
| Sept. 10 | 5 | 201 | 0.56 | 22.43 |
| Sept. 11 | 7 | 208 | 0.78 | 23.21 |
| Sept. 12 | 6 | 214 | 0.67 | 23.88 |
| Sept. 13 | 9 | 223 | 1.00 | 24.89 |
| Sept. 14 | 6 | 229 | 0.67 | 25.56 |
| Sept. 15 | 24 | 253 | 2.68 | 28.24 |
| Sept. 16 | 9 | 262 | 1.00 | 29.24 |
| Sept. 17 | 5 | 267 | 0.56 | 29.80 |
| Sept. 18 | 8 | 275 | 0.89 | 30.69 |
| Sept. 19 | 5 | 280 | 0.56 | 31.25 |
| Sept. 20 | 58 | 338 | 6.47 | 37.72 |
| Sept. 21 | 28 | 366 | 3.13 | 40.85 |
| Sept. 22 | 32 | 398 | 3.57 | 44.42 |
| Sept. 23 | 64 | 462 | 7.14 | 51.56 |
| Sept. 24 | 46 | 508 | 5.13 | 56.70 |
| Sept. 25 | 15 | 523 | 1.67 | 58.37 |
| Sept. 26 | 8 | 531 | 0.89 | 59.26 |
| Sept. 27 | 55 | 586 | 6.14 | 65.40 |
| Sept. 28 | 28 | 614 | 3.13 | 68.53 |
| Sept. 29 | 0 | 614 | 0.00 | 68.53 |
| Sept. 30 | 36 | 650 | 4.02 | 72.54 |
| OCT. 1 | 0 | 650 | 0.00 | 72.54 |
| OCT. 2 | 33 | 683 | 3.68 | 76.23 |
| OCT. 3 | 10 | 693 | 1.12 | 77.34 |
| OCT. 4 | 138 | 831 | 15.40 | 92.75 |
| OCT. 5 | 15 | 846 | 1.67 | 94.42 |
| OCT. 6 | 21 | 867 | 2.34 | 96.76 |
| OCT. 7 | 28 | 895 | 3.13 | 99.89 |
| OCT. 8 | 0 | 895 | 0.00 | 99.89 |
| OCT. 9 | 0 | 895 | 0.00 | 99.89 |
| OCT. 10 | 1 | 896 | 0.11 | 100.00 |
| OCT. 11 | 0 | 896 | 0.00 | 100.00 |

Mean day of migration = Sept. 19 Variance = 243.0 Day²

Appendix Table 71. Daily and cumulative chum salmon counts from King Salmon River weir, 1983.

| Date | Daily Count | Cumulative Count | Daily Percent of Total | Cumulative Percent |
|---------|-------------|------------------|------------------------|--------------------|
| June 27 | 1 | 1 | 0.04 | 0.04 |
| June 28 | 1 | 2 | 0.04 | 0.09 |
| June 29 | 2 | 4 | 0.09 | 0.17 |
| June 30 | 2 | 6 | 0.09 | 0.26 |
| July 1 | 4 | 10 | 0.17 | 0.44 |
| July 2 | 1 | 11 | 0.04 | 0.48 |
| July 3 | 1 | 12 | 0.04 | 0.52 |
| July 4 | 6 | 18 | 0.26 | 0.79 |
| July 5 | 5 | 23 | 0.22 | 1.00 |
| July 6 | 8 | 31 | 0.35 | 1.35 |
| July 7 | 10 | 41 | 0.44 | 1.79 |
| July 8 | 17 | 58 | 0.74 | 2.53 |
| July 9 | 41 | 99 | 1.79 | 4.33 |
| July 10 | 206 | 305 | 9.00 | 13.32 |
| July 11 | 60 | 365 | 2.62 | 15.95 |
| July 12 | 33 | 398 | 1.44 | 17.39 |
| July 13 | 14 | 412 | 0.61 | 18.00 |
| July 14 | 78 | 490 | 3.41 | 21.41 |
| July 15 | 86 | 576 | 3.76 | 25.16 |
| July 16 | 73 | 649 | 3.19 | 28.35 |
| July 17 | 117 | 766 | 5.11 | 33.46 |
| July 18 | 67 | 833 | 2.93 | 36.39 |
| July 19 | 731 | 1564 | 31.94 | 68.33 |
| July 20 | 176 | 1740 | 7.69 | 76.02 |
| July 21 | 76 | 1816 | 3.32 | 79.34 |
| July 22 | 320 | 2136 | 13.98 | 93.32 |
| July 23 | 24 | 2160 | 1.05 | 94.36 |
| July 24 | 49 | 2209 | 2.14 | 96.51 |
| July 25 | 25 | 2234 | 1.09 | 97.60 |
| July 26 | 55 | 2289 | 2.40 | 100.00 |

Mean day of migration = July 18 Variance = 20.8 Day²

Appendix Table 72. Daily and cumulative chum salmon counts from Salmon Creek weir, 1983.

| Date | Males | | | | Females | | | | Sexes Combined | | | |
|---------|-------------|------------------|---------------|--------------------|-------------|------------------|---------------|--------------------|----------------|------------------|---------------|--------------------|
| | Daily Count | Cumulative Count | Daily Percent | Cumulative Percent | Daily Count | Cumulative Count | Daily Percent | Cumulative Percent | Daily Count | Cumulative Count | Daily Percent | Cumulative Percent |
| July 26 | 31 | 31 | 8.18 | 8.18 | 31 | 31 | 8.12 | 8.12 | 62 | 62 | 8.15 | 8.15 |
| July 27 | 147 | 178 | 38.79 | 46.97 | 116 | 147 | 30.37 | 38.48 | 263 | 325 | 34.56 | 42.71 |
| July 28 | 11 | 189 | 2.90 | 49.87 | 5 | 152 | 1.31 | 39.79 | 16 | 341 | 2.10 | 44.81 |
| July 29 | 19 | 208 | 5.01 | 54.88 | 18 | 170 | 4.71 | 44.50 | 37 | 378 | 4.86 | 49.67 |
| July 30 | 17 | 225 | 4.49 | 59.37 | 17 | 187 | 4.45 | 48.95 | 34 | 412 | 4.47 | 54.14 |
| July 31 | 17 | 242 | 4.49 | 63.85 | 6 | 193 | 1.57 | 50.52 | 23 | 435 | 3.02 | 57.16 |
| Aug. 1 | 12 | 254 | 3.17 | 67.02 | 12 | 205 | 3.14 | 53.66 | 24 | 459 | 3.15 | 60.32 |
| Aug. 2 | 7 | 261 | 1.85 | 68.87 | 9 | 214 | 2.36 | 56.02 | 16 | 475 | 2.10 | 62.42 |
| Aug. 3 | 6 | 267 | 1.58 | 70.45 | 5 | 219 | 1.31 | 57.33 | 11 | 486 | 1.45 | 63.86 |
| Aug. 4 | 38 | 305 | 10.03 | 80.47 | 22 | 241 | 5.76 | 63.09 | 60 | 546 | 7.88 | 71.75 |
| Aug. 5 | 10 | 315 | 2.64 | 83.11 | 15 | 256 | 3.93 | 67.02 | 25 | 571 | 3.29 | 75.03 |
| Aug. 6 | 0 | 315 | 0.00 | 83.11 | 0 | 256 | 0.00 | 67.02 | 0 | 571 | 0.00 | 75.03 |
| Aug. 7 | 4 | 319 | 1.06 | 84.17 | 89 | 345 | 23.30 | 90.31 | 93 | 664 | 12.22 | 87.25 |
| Aug. 8 | 43 | 362 | 11.35 | 95.51 | 4 | 349 | 1.05 | 91.36 | 47 | 711 | 6.18 | 93.43 |
| Aug. 9 | 5 | 367 | 1.32 | 96.83 | 4 | 353 | 1.05 | 92.41 | 9 | 720 | 1.18 | 94.61 |
| Aug. 10 | 4 | 371 | 1.06 | 97.89 | 9 | 362 | 2.36 | 94.76 | 13 | 733 | 1.71 | 96.32 |
| Aug. 11 | 1 | 372 | 0.26 | 98.15 | 3 | 365 | 0.79 | 95.55 | 4 | 737 | 0.53 | 96.85 |
| Aug. 12 | 0 | 372 | 0.00 | 98.15 | 0 | 365 | 0.00 | 95.55 | 0 | 737 | 0.00 | 96.85 |
| Aug. 13 | 0 | 372 | 0.00 | 98.15 | 1 | 366 | 0.26 | 95.81 | 1 | 738 | 0.13 | 96.98 |
| Aug. 14 | 0 | 372 | 0.00 | 98.15 | 0 | 366 | 0.00 | 95.81 | 0 | 738 | 0.00 | 96.98 |
| Aug. 15 | 3 | 375 | 0.79 | 98.94 | 2 | 368 | 0.52 | 96.34 | 5 | 743 | 0.66 | 97.63 |
| Aug. 16 | 0 | 375 | 0.00 | 98.94 | 0 | 368 | 0.00 | 96.34 | 0 | 743 | 0.00 | 97.63 |
| Aug. 17 | 3 | 378 | 0.79 | 99.74 | 5 | 373 | 1.31 | 97.64 | 8 | 751 | 1.05 | 98.69 |
| Aug. 18 | 0 | 378 | 0.00 | 99.74 | 5 | 378 | 1.31 | 98.95 | 5 | 756 | 0.66 | 99.34 |
| Aug. 19 | 0 | 378 | 0.00 | 99.74 | 2 | 380 | 0.52 | 99.48 | 2 | 758 | 0.26 | 99.61 |
| Aug. 20 | 1 | 379 | 0.26 | 100.00 | 0 | 380 | 0.00 | 99.48 | 1 | 759 | 0.13 | 99.74 |
| Aug. 21 | 0 | 379 | 0.00 | 100.00 | 2 | 382 | 0.52 | 100.00 | 2 | 761 | 0.26 | 100.00 |
| Aug. 22 | 0 | 379 | 0.00 | 100.00 | 0 | 382 | 0.00 | 100.00 | 0 | 761 | 0.00 | 100.00 |

Mean day of migration = July 31

Mean day of migration = Aug. 1

Mean day of migration = Aug. 1

Variance = 26.6 days²

Variance = 36.7 days²

Variance = 32.4 days²

Appendix Table 73. Daily and cumulative chum salmon counts from Auke Creek weir, 1983.

| Date | Males | | | | Female | | | | Sexes Combined | | | |
|---------|-------------|------------------|---------------|--------------------|-------------|------------------|---------------|--------------------|----------------|------------------|---------------|--------------------|
| | Daily Count | Cumulative Count | Daily Percent | Cumulative Percent | Daily Count | Cumulative Count | Daily Percent | Cumulative Percent | Daily Count | Cumulative Count | Daily Percent | Cumulative Percent |
| Aug. 7 | 4 | 4 | 2.42 | 2.42 | 5 | 5 | 3.47 | 3.47 | 9 | 9 | 2.91 | 2.91 |
| Aug. 8 | 1 | 5 | 0.61 | 3.03 | 2 | 7 | 1.39 | 4.86 | 3 | 12 | 0.97 | 3.88 |
| Aug. 9 | 1 | 6 | 0.61 | 3.64 | 4 | 11 | 2.78 | 7.64 | 5 | 17 | 1.62 | 5.50 |
| Aug. 10 | 0 | 6 | 0.00 | 3.64 | 2 | 13 | 1.39 | 9.03 | 2 | 19 | 0.65 | 6.15 |
| Aug. 11 | 6 | 12 | 3.64 | 7.27 | 6 | 19 | 4.17 | 13.19 | 12 | 31 | 3.88 | 10.03 |
| Aug. 12 | 1 | 13 | 0.61 | 7.88 | 5 | 24 | 3.47 | 16.67 | 6 | 37 | 1.94 | 11.97 |
| Aug. 13 | 0 | 13 | 0.00 | 7.88 | 0 | 24 | 0.00 | 16.67 | 0 | 37 | 0.00 | 11.97 |
| Aug. 14 | 0 | 13 | 0.00 | 7.88 | 0 | 24 | 0.00 | 16.67 | 0 | 37 | 0.00 | 11.97 |
| Aug. 15 | 33 | 46 | 20.00 | 27.88 | 22 | 46 | 15.28 | 31.94 | 55 | 92 | 17.80 | 29.77 |
| Aug. 16 | 0 | 46 | 0.00 | 27.88 | 1 | 47 | 0.69 | 32.64 | 1 | 93 | 0.32 | 30.10 |
| Aug. 17 | 5 | 51 | 3.03 | 30.91 | 7 | 54 | 4.86 | 37.50 | 12 | 105 | 3.88 | 33.98 |
| Aug. 18 | 0 | 51 | 0.00 | 30.91 | 1 | 55 | 0.69 | 38.19 | 1 | 106 | 0.32 | 34.30 |
| Aug. 19 | 6 | 57 | 3.64 | 34.55 | 3 | 58 | 2.08 | 40.28 | 9 | 115 | 2.91 | 37.22 |
| Aug. 20 | 0 | 57 | 0.00 | 34.55 | 0 | 58 | 0.00 | 40.28 | 0 | 115 | 0.00 | 37.22 |
| Aug. 21 | 10 | 67 | 6.06 | 40.61 | 10 | 68 | 6.94 | 47.22 | 20 | 135 | 6.47 | 43.69 |
| Aug. 22 | 22 | 89 | 13.33 | 53.94 | 16 | 84 | 11.11 | 58.33 | 38 | 173 | 12.30 | 55.99 |
| Aug. 23 | 8 | 97 | 4.85 | 58.79 | 9 | 93 | 6.25 | 64.58 | 17 | 190 | 5.50 | 61.49 |
| Aug. 24 | 8 | 105 | 4.85 | 63.64 | 6 | 99 | 4.17 | 68.75 | 14 | 204 | 4.53 | 66.02 |
| Aug. 25 | 0 | 105 | 0.00 | 63.64 | 2 | 101 | 1.39 | 70.14 | 2 | 206 | 0.65 | 66.67 |

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Appendix Table 73. Daily and cumulative chum salmon counts from Auke Creek weir, 1983.

| Date | Males | | | | Female | | | | Sexes Combined | | | |
|----------|-------------|------------------|---------------|--------------------|-------------|------------------|---------------|--------------------|----------------|------------------|---------------|--------------------|
| | Daily Count | Cumulative Count | Daily Percent | Cumulative Percent | Daily Count | Cumulative Count | Daily Percent | Cumulative Percent | Daily Count | Cumulative Count | Daily Percent | Cumulative Percent |
| Aug. 26 | 7 | 112 | 4.24 | 67.88 | 9 | 110 | 6.25 | 76.39 | 16 | 222 | 5.18 | 71.84 |
| Aug. 27 | 0 | 112 | 0.00 | 67.88 | 0 | 110 | 0.00 | 76.39 | 0 | 222 | 0.00 | 71.84 |
| Aug. 28 | 0 | 112 | 0.00 | 67.88 | 0 | 110 | 0.00 | 76.39 | 0 | 222 | 0.00 | 71.84 |
| Aug. 29 | 5 | 117 | 3.03 | 70.91 | 12 | 122 | 8.33 | 84.72 | 17 | 239 | 5.50 | 77.35 |
| Aug. 30 | 3 | 120 | 1.82 | 72.73 | 5 | 127 | 3.47 | 88.19 | 8 | 247 | 2.59 | 79.94 |
| Aug. 31 | 1 | 121 | 0.61 | 73.33 | 1 | 128 | 0.69 | 88.89 | 2 | 249 | 0.65 | 80.58 |
| Sept. 1 | 0 | 121 | 0.00 | 73.33 | 1 | 129 | 0.69 | 89.58 | 1 | 250 | 0.32 | 80.91 |
| Sept. 2 | 11 | 132 | 6.67 | 80.00 | 3 | 132 | 2.08 | 91.67 | 14 | 264 | 4.53 | 85.44 |
| Sept. 3 | 17 | 149 | 10.30 | 90.30 | 5 | 137 | 3.47 | 95.14 | 22 | 286 | 7.12 | 92.56 |
| Sept. 4 | 1 | 150 | 0.61 | 90.91 | 0 | 137 | 0.00 | 95.14 | 1 | 287 | 0.32 | 92.88 |
| Sept. 5 | 0 | 150 | 0.00 | 90.91 | 0 | 137 | 0.00 | 95.14 | 0 | 287 | 0.00 | 92.88 |
| Sept. 6 | 4 | 154 | 2.42 | 93.33 | 3 | 140 | 2.08 | 97.22 | 7 | 294 | 2.27 | 95.15 |
| Sept. 7 | 1 | 155 | 0.61 | 93.94 | 0 | 140 | 0.00 | 97.22 | 1 | 295 | 0.32 | 95.47 |
| Sept. 8 | 2 | 157 | 1.21 | 95.15 | 1 | 141 | 0.69 | 97.92 | 3 | 298 | 0.97 | 96.44 |
| Sept. 9 | 3 | 160 | 1.82 | 96.97 | 2 | 143 | 1.39 | 99.31 | 5 | 303 | 1.62 | 98.06 |
| Sept. 10 | 0 | 160 | 0.00 | 96.97 | 0 | 143 | 0.00 | 99.31 | 0 | 303 | 0.00 | 98.06 |
| Sept. 11 | 1 | 161 | 0.61 | 97.58 | 1 | 144 | 0.69 | 100.00 | 2 | 305 | 0.65 | 98.71 |
| Sept. 12 | 0 | 161 | 0.00 | 97.58 | 0 | 144 | 0.00 | 100.00 | 0 | 305 | 0.00 | 98.71 |
| Sept. 13 | 0 | 161 | 0.00 | 97.58 | 0 | 144 | 0.00 | 100.00 | 0 | 305 | 0.00 | 98.71 |
| Sept. 14 | 0 | 161 | 0.00 | 97.58 | 0 | 144 | 0.00 | 100.00 | 0 | 305 | 0.00 | 98.71 |
| Sept. 15 | 0 | 161 | 0.00 | 97.58 | 0 | 144 | 0.00 | 100.00 | 0 | 305 | 0.00 | 98.71 |
| Sept. 16 | 1 | 162 | 0.61 | 98.18 | 0 | 144 | 0.00 | 100.00 | 1 | 306 | 0.32 | 99.03 |
| Sept. 17 | 0 | 162 | 0.00 | 98.18 | 0 | 144 | 0.00 | 100.00 | 0 | 306 | 0.00 | 99.03 |
| Sept. 18 | 0 | 162 | 0.00 | 98.18 | 0 | 144 | 0.69 | 100.00 | 0 | 306 | 0.00 | 99.03 |
| Sept. 19 | 0 | 162 | 0.00 | 98.18 | 0 | 144 | 0.00 | 100.00 | 0 | 306 | 0.00 | 99.03 |
| Sept. 20 | 1 | 163 | 0.61 | 98.79 | 0 | 144 | 0.00 | 100.00 | 1 | 307 | 0.32 | 99.35 |
| Sept. 21 | 1 | 164 | 0.61 | 99.39 | 0 | 144 | 0.00 | 100.00 | 1 | 308 | 0.32 | 98.68 |
| Sept. 22 | 0 | 164 | 0.00 | 99.39 | 0 | 144 | 0.00 | 100.00 | 0 | 308 | 0.00 | 98.68 |
| Sept. 23 | 1 | 165 | 0.61 | 100.00 | 0 | 144 | 0.00 | 100.00 | 1 | 309 | 0.32 | 100.00 |

Mean day of Migration = Aug. 24

Mean day of Migration = Aug. 21

Mean day of Migration = Aug. 23

Variance = 87.4 days²

Variance = 65.0 days²

Variance = 78.6 days²

Appendix Table 74. Daily and cumulative chum salmon counts from Montana Creek weir, 1983.

| Date | Males | | | | Females | | | | Sexes Combined | | | |
|---------|-------------|------------------|---------------|--------------------|-------------|------------------|---------------|--------------------|----------------|------------------|---------------|--------------------|
| | Daily Count | Cumulative Count | Daily Percent | Cumulative Percent | Daily Count | Cumulative Count | Daily Percent | Cumulative Percent | Daily Count | Cumulative Count | Daily Percent | Cumulative Percent |
| July 7 | 4 | 4 | 0.14 | 0.14 | 3 | 3 | 0.28 | 0.28 | 7 | 7 | 0.18 | 0.18 |
| July 8 | 2 | 6 | 0.07 | 0.21 | 0 | 3 | 0.00 | 0.28 | 2 | 9 | 0.05 | 0.23 |
| July 9 | 30 | 36 | 1.06 | 1.27 | 19 | 22 | 1.77 | 2.05 | 49 | 58 | 1.25 | 1.48 |
| July 10 | 32 | 68 | 1.13 | 2.40 | 20 | 42 | 1.87 | 3.92 | 52 | 110 | 1.33 | 2.81 |
| July 11 | 22 | 90 | 0.78 | 3.17 | 9 | 51 | 0.84 | 4.76 | 31 | 141 | 0.79 | 3.61 |
| July 12 | 21 | 111 | 0.74 | 3.91 | 11 | 62 | 1.03 | 5.78 | 32 | 173 | 0.82 | 4.43 |
| July 13 | 60 | 171 | 2.11 | 6.03 | 34 | 96 | 3.17 | 8.96 | 94 | 267 | 2.40 | 6.83 |
| July 14 | 104 | 275 | 3.67 | 9.69 | 64 | 160 | 5.97 | 14.93 | 168 | 435 | 4.30 | 11.13 |
| July 15 | 46 | 321 | 1.62 | 11.31 | 51 | 211 | 4.76 | 19.68 | 97 | 532 | 2.48 | 13.61 |
| July 16 | 157 | 478 | 5.53 | 16.85 | 83 | 294 | 7.74 | 27.43 | 240 | 772 | 6.14 | 19.75 |
| July 17 | 82 | 560 | 2.89 | 19.74 | 6 | 300 | 0.56 | 27.99 | 88 | 860 | 2.25 | 22.00 |
| July 18 | 185 | 745 | 6.52 | 26.26 | 30 | 330 | 2.80 | 30.78 | 215 | 1075 | 5.50 | 27.50 |
| July 19 | 0 | 745 | 0.00 | 26.26 | 0 | 330 | 0.00 | 30.78 | 0 | 1075 | 0.00 | 27.50 |
| July 20 | 109 | 854 | 3.84 | 30.10 | 113 | 443 | 10.54 | 41.32 | 222 | 1297 | 5.68 | 33.18 |
| July 21 | 416 | 1270 | 14.66 | 44.77 | 98 | 541 | 9.14 | 50.47 | 514 | 1811 | 13.15 | 46.33 |
| July 22 | 88 | 1358 | 3.10 | 47.87 | 32 | 573 | 2.99 | 53.45 | 120 | 1931 | 3.07 | 49.40 |
| July 23 | 151 | 1509 | 5.32 | 53.19 | 9 | 582 | 0.84 | 54.29 | 160 | 2091 | 4.09 | 53.49 |
| July 24 | 0 | 1509 | 0.00 | 53.19 | 0 | 582 | 0.00 | 54.29 | 0 | 2091 | 0.00 | 53.49 |
| July 25 | 148 | 1657 | 5.22 | 58.41 | 58 | 640 | 5.41 | 59.70 | 206 | 2297 | 5.27 | 58.76 |
| July 26 | 125 | 1782 | 4.41 | 62.81 | 50 | 690 | 4.66 | 64.37 | 175 | 2472 | 4.48 | 63.24 |
| July 27 | 0 | 1782 | 0.00 | 62.81 | 0 | 690 | 0.00 | 64.37 | 0 | 2472 | 0.00 | 63.24 |
| July 28 | 102 | 1884 | 3.60 | 66.41 | 16 | 706 | 1.49 | 65.86 | 118 | 2590 | 3.02 | 66.26 |
| July 29 | 0 | 1884 | 0.00 | 66.41 | 0 | 706 | 0.00 | 65.86 | 0 | 2590 | 0.00 | 66.26 |
| July 30 | 0 | 1884 | 0.00 | 66.41 | 0 | 706 | 0.00 | 65.86 | 0 | 2590 | 0.00 | 66.26 |
| July 31 | 254 | 2138 | 8.95 | 75.36 | 75 | 781 | 7.00 | 72.85 | 329 | 2919 | 8.42 | 74.67 |

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Appendix Table 74. Daily and cumulative chum salmon counts from Montana Creek weir, 1983
 (continued).

| Date | Males | | | | Females | | | | Sexes Combined | | | |
|---------|-------------|------------------|---------------|--------------------|-------------|------------------|---------------|--------------------|----------------|------------------|---------------|--------------------|
| | Daily Count | Cumulative Count | Daily Percent | Cumulative Percent | Daily Count | Cumulative Count | Daily Percent | Cumulative Percent | Daily Count | Cumulative Count | Daily Percent | Cumulative Percent |
| Aug. 1 | 12 | 2150 | 0.42 | 75.78 | 19 | 800 | 1.77 | 74.63 | 31 | 2950 | 0.79 | 75.47 |
| Aug. 2 | 136 | 2286 | 4.79 | 80.58 | 35 | 835 | 3.26 | 77.89 | 171 | 3121 | 4.37 | 79.84 |
| Aug. 3 | 12 | 2298 | 0.42 | 81.00 | 17 | 852 | 1.59 | 79.48 | 29 | 3150 | 0.74 | 80.58 |
| Aug. 4 | 18 | 2316 | 0.63 | 81.64 | 24 | 876 | 2.24 | 81.72 | 42 | 3192 | 1.07 | 81.66 |
| Aug. 5 | 145 | 2461 | 5.11 | 86.75 | 43 | 919 | 4.01 | 85.73 | 188 | 3380 | 4.81 | 86.47 |
| Aug. 6 | 11 | 2472 | 0.39 | 87.13 | 20 | 939 | 1.87 | 87.59 | 31 | 3411 | 0.79 | 87.26 |
| Aug. 7 | 110 | 2582 | 3.88 | 91.01 | 15 | 954 | 1.40 | 88.99 | 125 | 3536 | 3.20 | 90.46 |
| Aug. 8 | 3 | 2585 | 0.11 | 91.12 | 2 | 956 | 0.19 | 89.18 | 5 | 3541 | 0.13 | 90.59 |
| Aug. 9 | 38 | 2623 | 1.34 | 92.46 | 16 | 972 | 1.49 | 90.67 | 54 | 3595 | 1.38 | 91.97 |
| Aug. 10 | 3 | 2626 | 0.11 | 92.56 | 2 | 974 | 0.19 | 90.86 | 5 | 3600 | 0.13 | 92.10 |
| Aug. 11 | 93 | 2719 | 3.28 | 95.84 | 7 | 981 | 0.65 | 91.51 | 100 | 3700 | 2.56 | 94.65 |
| Aug. 12 | 2 | 2721 | 0.07 | 95.91 | 2 | 983 | 0.19 | 91.70 | 4 | 3704 | 0.10 | 94.76 |
| Aug. 13 | 46 | 2767 | 1.62 | 97.53 | 9 | 992 | 0.84 | 92.54 | 55 | 3759 | 1.41 | 96.16 |
| Aug. 14 | 40 | 2807 | 1.41 | 98.94 | 22 | 1014 | 2.05 | 94.59 | 62 | 3821 | 1.59 | 97.75 |
| Aug. 15 | 0 | 2807 | 0.00 | 98.94 | 0 | 1014 | 0.00 | 94.59 | 0 | 3821 | 0.00 | 97.75 |
| Aug. 16 | 6 | 2813 | 0.21 | 99.15 | 12 | 1026 | 1.12 | 95.71 | 18 | 3839 | 0.46 | 98.21 |
| Aug. 17 | 9 | 2822 | 0.32 | 99.47 | 14 | 1040 | 1.31 | 97.01 | 23 | 3862 | 0.59 | 98.80 |
| Aug. 18 | 0 | 2822 | 0.00 | 99.47 | 0 | 1040 | 0.00 | 97.01 | 0 | 3862 | 0.00 | 98.80 |
| Aug. 19 | 0 | 2822 | 0.00 | 99.47 | 0 | 1040 | 0.00 | 97.01 | 0 | 3862 | 0.00 | 98.80 |
| Aug. 20 | 8 | 2830 | 0.28 | 99.75 | 20 | 1060 | 1.87 | 98.88 | 28 | 3890 | 0.72 | 99.51 |
| Aug. 21 | 7 | 2837 | 0.25 | 100.00 | 12 | 1072 | 1.12 | 100.00 | 19 | 3909 | 0.49 | 100.00 |

Mean day of migration = July 25

Mean day of migration = July 25

Mean day of migration = July 25

Variance = 83.2 days²

Variance = 112.1 days²

Variance = 91.1 days²

Appendix Table 75. Daily and cumulative chum salmon counts from Kadashan River weir, 1983.

| Date | West Fork | | | | | East Fork | | | | | Kadashan River | | | | |
|---------|-------------|------------------|---------------|--------------------|-------------|------------------|---------------|--------------------|-------------|------------------|----------------|--------------------|-------------|------------------|---------|
| | Daily Count | Cumulative Count | Daily Percent | Cumulative Percent | Daily Count | Cumulative Count | Daily Percent | Cumulative Percent | Daily Count | Cumulative Count | Daily Percent | Cumulative Percent | Daily Count | Cumulative Count | Percent |
| July 10 | 0 | 0 | 0.00 | 0.00 | 3 | 3 | 0.02 | 0.02 | 3 | 3 | 0.01 | 0.01 | | | |
| July 11 | 0 | 0 | 0.00 | 0.00 | 0 | 3 | 0.00 | 0.02 | 0 | 3 | 0.00 | 0.01 | | | |
| July 12 | 7 | 7 | 0.03 | 0.03 | 0 | 3 | 0.00 | 0.02 | 7 | 10 | 0.02 | 0.03 | | | |
| July 13 | 0 | 7 | 0.00 | 0.03 | 0 | 3 | 0.00 | 0.02 | 0 | 10 | 0.00 | 0.03 | | | |
| July 14 | 0 | 7 | 0.00 | 0.03 | 0 | 3 | 0.00 | 0.02 | 0 | 10 | 0.00 | 0.03 | | | |
| July 15 | 0 | 7 | 0.00 | 0.03 | 0 | 3 | 0.00 | 0.02 | 0 | 10 | 0.00 | 0.03 | | | |
| July 16 | 0 | 7 | 0.00 | 0.03 | 0 | 3 | 0.00 | 0.02 | 0 | 10 | 0.00 | 0.03 | | | |
| July 17 | 0 | 7 | 0.00 | 0.03 | 0 | 3 | 0.00 | 0.02 | 0 | 10 | 0.00 | 0.03 | | | |
| July 18 | 161 | 168 | 0.69 | 0.72 | 12 | 15 | 0.09 | 0.12 | 180 | 190 | 0.54 | 0.57 | | | |
| July 19 | 124 | 292 | 0.53 | 1.25 | 16 | 31 | 0.13 | 0.24 | 140 | 330 | 0.42 | 0.99 | | | |
| July 20 | 91 | 383 | 0.39 | 1.64 | 30 | 61 | 0.24 | 0.48 | 121 | 451 | 0.36 | 1.35 | | | |
| July 21 | 74 | 457 | 0.32 | 1.96 | 14 | 75 | 0.11 | 0.59 | 88 | 539 | 0.26 | 1.62 | | | |
| July 22 | 3026 | 3483 | 12.98 | 14.94 | 1809 | 1884 | 14.20 | 14.78 | 4835 | 5374 | 14.51 | 16.13 | | | |
| July 23 | 473 | 3956 | 2.03 | 16.97 | 116 | 2000 | 0.91 | 15.69 | 589 | 5963 | 1.77 | 17.89 | | | |
| July 24 | 500 | 4456 | 2.14 | 19.11 | 15 | 2015 | 0.12 | 15.81 | 515 | 6478 | 1.55 | 19.44 | | | |
| July 25 | 0 | 4456 | 0.00 | 19.11 | 1 | 2016 | 0.01 | 15.82 | 1 | 6479 | 0.00 | 19.44 | | | |
| July 26 | 5 | 4461 | 0.02 | 19.13 | 27 | 2043 | 0.21 | 16.03 | 32 | 6511 | 0.10 | 19.54 | | | |
| July 27 | 964 | 5425 | 4.13 | 23.27 | 649 | 2692 | 5.09 | 21.13 | 1613 | 8124 | 4.84 | 24.38 | | | |
| July 28 | 1023 | 6448 | 4.39 | 27.65 | 503 | 3195 | 3.95 | 25.07 | 1526 | 9650 | 4.58 | 28.96 | | | |
| July 29 | 543 | 6991 | 2.33 | 29.98 | 326 | 3521 | 2.56 | 27.63 | 869 | 10519 | 2.61 | 31.57 | | | |
| July 30 | 1787 | 8778 | 7.66 | 37.65 | 482 | 4003 | 3.78 | 31.41 | 2269 | 12788 | 6.81 | 38.37 | | | |
| July 31 | 8022 | 16800 | 34.41 | 72.05 | 3224 | 7227 | 25.30 | 56.71 | 8504 | 21292 | 25.52 | 63.89 | | | |
| Aug. 1 | 1053 | 17853 | 4.52 | 76.57 | 277 | 7504 | 2.17 | 58.89 | 1330 | 22622 | 3.99 | 67.89 | | | |
| Aug. 2 | 251 | 18104 | 1.08 | 77.65 | 91 | 7595 | 0.71 | 59.60 | 342 | 22964 | 1.03 | 68.91 | | | |
| Aug. 3 | 188 | 18292 | 0.81 | 78.45 | 200 | 7795 | 1.57 | 61.17 | 388 | 23352 | 1.16 | 70.08 | | | |
| Aug. 4 | 119 | 18411 | 0.51 | 78.96 | 81 | 7876 | 0.64 | 61.81 | 200 | 23552 | 0.60 | 70.68 | | | |
| Aug. 5 | 114 | 18525 | 0.49 | 79.45 | 78 | 7954 | 0.61 | 62.42 | 192 | 23744 | 0.58 | 71.25 | | | |
| Aug. 6 | 611 | 19136 | 2.62 | 82.07 | 423 | 8377 | 3.32 | 65.74 | 1034 | 24778 | 3.10 | 74.35 | | | |
| Aug. 7 | 2561 | 21697 | 10.98 | 93.06 | 2928 | 11305 | 22.98 | 88.72 | 5489 | 30267 | 16.47 | 90.83 | | | |
| Aug. 8 | 83 | 21780 | 0.36 | 93.41 | 95 | 11400 | 0.75 | 89.46 | 178 | 30445 | 0.53 | 91.36 | | | |
| Aug. 9 | 73 | 21853 | 0.31 | 93.73 | 87 | 11487 | 0.68 | 90.14 | 160 | 30605 | 0.48 | 91.84 | | | |
| Aug. 10 | 1391 | 23244 | 5.97 | 99.69 | 1179 | 12666 | 9.25 | 99.40 | 2570 | 33175 | 7.71 | 99.55 | | | |
| Aug. 11 | 40 | 23284 | 0.17 | 99.86 | 11 | 12677 | 0.09 | 99.48 | 51 | 33226 | 0.15 | 99.71 | | | |
| Aug. 12 | 5 | 23289 | 0.02 | 99.88 | 15 | 12692 | 0.12 | 99.60 | 20 | 33246 | 0.06 | 99.77 | | | |
| Aug. 13 | 8 | 23297 | 0.03 | 99.92 | 33 | 12725 | 0.26 | 99.86 | 41 | 33287 | 0.12 | 99.89 | | | |
| Aug. 14 | 19 | 23316 | 0.08 | 100.00 | 18 | 12743 | 0.14 | 100.00 | 37 | 33324 | 0.11 | 100.00 | | | |
| Aug. 15 | 0 | 23316 | 0.00 | 100.00 | 0 | 12743 | 0.00 | 100.00 | 0 | 33324 | 0.00 | 100.00 | | | |
| Aug. 16 | 0 | 23316 | 0.00 | 100.00 | 0 | 12743 | 0.00 | 100.00 | 0 | 33324 | 0.00 | 100.00 | | | |
| Aug. 17 | 0 | 23316 | 0.00 | 100.00 | 0 | 12743 | 0.00 | 100.00 | 0 | 33324 | 0.00 | 100.00 | | | |

Mean day of migration = Aug. 1
Variance = 37.0 days²

Mean day of migration = July 31
Variance = 30.4 days²

Mean day of migration = July 31
Variance = 36.1 days²

Appendix Table 76. Daily and cumulative chum salmon counts from Redoubt River weir, 1983.

| Date | Daily Count | Cumulative Count | Daily Percent of Total | Cumulative Percent |
|---------|-------------|------------------|------------------------|--------------------|
| July 6 | 1 | 1 | 0.85 | 0.85 |
| July 7 | 0 | 1 | 0.00 | 0.85 |
| July 8 | 1 | 2 | 0.85 | 1.69 |
| July 9 | 2 | 4 | 1.69 | 3.39 |
| July 10 | 0 | 4 | 0.00 | 3.39 |
| July 11 | 0 | 4 | 0.00 | 3.39 |
| July 12 | 0 | 4 | 0.00 | 3.39 |
| July 13 | 0 | 4 | 0.00 | 3.39 |
| July 14 | 0 | 4 | 0.00 | 3.39 |
| July 15 | 0 | 4 | 0.00 | 3.39 |
| July 16 | 0 | 4 | 0.00 | 3.39 |
| July 17 | 0 | 4 | 0.00 | 3.39 |
| July 18 | 0 | 4 | 0.00 | 3.39 |
| July 19 | 0 | 4 | 0.00 | 3.39 |
| July 20 | 2 | 6 | 1.69 | 5.08 |
| July 21 | 0 | 6 | 0.00 | 5.08 |
| July 22 | 0 | 6 | 0.00 | 5.08 |
| July 23 | 0 | 6 | 0.00 | 5.08 |
| July 24 | 1 | 7 | 0.85 | 5.93 |
| July 25 | 0 | 7 | 0.00 | 5.93 |
| July 26 | 0 | 7 | 0.00 | 5.93 |
| July 27 | 0 | 7 | 0.00 | 5.93 |
| July 28 | 0 | 7 | 0.00 | 5.93 |
| July 29 | 1 | 8 | 0.85 | 6.78 |
| July 30 | 1 | 9 | 0.85 | 7.63 |
| July 31 | 0 | 9 | 0.00 | 7.63 |
| Aug. 1 | 3 | 12 | 2.54 | 10.17 |
| Aug. 2 | 7 | 19 | 5.93 | 16.10 |
| Aug. 3 | 1 | 20 | 0.85 | 16.95 |
| Aug. 4 | 1 | 21 | 0.85 | 17.80 |
| Aug. 5 | 1 | 22 | 0.85 | 18.64 |
| Aug. 6 | 2 | 24 | 1.69 | 20.34 |
| Aug. 7 | 21 | 45 | 17.80 | 38.14 |
| Aug. 8 | 1 | 46 | 0.85 | 38.98 |
| Aug. 9 | 2 | 48 | 1.69 | 40.68 |
| Aug. 10 | 9 | 57 | 7.63 | 48.31 |
| Aug. 11 | 0 | 57 | 0.00 | 48.31 |
| Aug. 12 | 1 | 58 | 0.85 | 49.15 |
| Aug. 13 | 0 | 58 | 0.00 | 49.15 |
| Aug. 14 | 4 | 62 | 3.39 | 52.54 |
| Aug. 15 | 6 | 68 | 5.08 | 57.63 |
| Aug. 16 | 2 | 70 | 1.69 | 59.32 |
| Aug. 17 | 2 | 72 | 1.69 | 61.02 |
| Aug. 18 | 4 | 76 | 3.39 | 64.41 |

Appendix Table 76. Daily and cumulative chum salmon counts from Redoubt River weir, 1983 (continued).

| Date | Daily Count | Cumulative Count | Daily Percent of Total | Cumulative Percent |
|----------|-------------|------------------|------------------------|--------------------|
| Aug. 19 | 0 | 76 | 0.00 | 64.41 |
| Aug. 20 | 2 | 78 | 1.69 | 66.10 |
| Aug. 21 | 2 | 80 | 1.69 | 67.80 |
| Aug. 22 | 0 | 80 | 0.00 | 67.80 |
| Aug. 23 | 2 | 82 | 1.69 | 69.49 |
| Aug. 24 | 1 | 83 | 0.85 | 70.34 |
| Aug. 25 | 0 | 83 | 0.00 | 70.34 |
| Aug. 26 | 1 | 84 | 0.85 | 71.19 |
| Aug. 27 | 0 | 84 | 0.00 | 71.19 |
| Aug. 28 | 1 | 85 | 0.85 | 72.03 |
| Aug. 29 | 2 | 87 | 1.69 | 73.73 |
| Aug. 30 | 3 | 90 | 2.54 | 76.27 |
| Aug. 31 | 0 | 90 | 0.00 | 76.27 |
| Sept. 1 | 0 | 90 | 0.00 | 76.27 |
| Sept. 2 | 1 | 91 | 0.85 | 77.12 |
| Sept. 3 | 0 | 91 | 0.00 | 77.12 |
| Sept. 4 | 1 | 92 | 0.85 | 77.97 |
| Sept. 5 | 1 | 93 | 0.85 | 78.81 |
| Sept. 6 | 0 | 93 | 0.00 | 78.81 |
| Sept. 7 | 2 | 95 | 1.69 | 80.51 |
| Sept. 8 | 1 | 96 | 0.85 | 81.36 |
| Sept. 9 | 3 | 99 | 2.54 | 83.90 |
| Sept. 10 | 3 | 102 | 2.54 | 86.44 |
| Sept. 11 | 5 | 107 | 4.24 | 90.68 |
| Sept. 12 | 1 | 108 | 0.85 | 91.53 |
| Sept. 13 | 1 | 109 | 0.85 | 92.37 |
| Sept. 14 | 0 | 109 | 0.00 | 92.37 |
| Sept. 15 | 1 | 110 | 0.85 | 93.22 |
| Sept. 16 | 4 | 114 | 3.39 | 96.61 |
| Sept. 17 | 0 | 114 | 0.00 | 96.61 |
| Sept. 18 | 0 | 114 | 0.00 | 96.61 |
| Sept. 19 | 0 | 114 | 0.00 | 96.61 |
| Sept. 20 | 1 | 115 | 0.85 | 97.46 |
| Sept. 21 | 1 | 116 | 0.85 | 98.31 |
| Sept. 22 | 0 | 116 | 0.00 | 98.31 |
| Sept. 23 | 0 | 116 | 0.00 | 98.31 |
| Sept. 24 | 0 | 116 | 0.00 | 98.31 |
| Sept. 25 | 1 | 117 | 0.85 | 99.15 |
| Sept. 26 | 0 | 117 | 0.00 | 99.15 |
| Sept. 27 | 0 | 117 | 0.00 | 99.15 |
| Sept. 28 | 0 | 117 | 0.00 | 99.15 |
| Sept. 29 | 0 | 117 | 0.00 | 99.15 |
| Sept. 30 | 0 | 117 | 0.00 | 99.15 |
| OCT. 1 | 1 | 118 | 0.85 | 100.00 |

Mean Day of Migration = Aug. 17 Variance = 312.3 Days²

Appendix Table 77. Daily and cumulative chum salmon counts from Sawmill Creek weir, 1983

| Date | Males | | | | Females | | | | Sexes Combined | | | |
|---------|-------------|------------------|---------------|--------------------|-------------|------------------|---------------|--------------------|----------------|------------------|---------------|--------------------|
| | Daily Count | Cumulative Count | Daily Percent | Cumulative Percent | Daily Count | Cumulative Count | Daily Percent | Cumulative Percent | Daily Count | Cumulative Count | Daily Percent | Cumulative Percent |
| July 16 | 63 | 63 | 6.92 | 6.92 | 42 | 42 | 6.27 | 6.27 | 105 | 105 | 6.65 | 6.65 |
| July 17 | 13 | 76 | 1.43 | 8.35 | 6 | 48 | 0.90 | 7.16 | 19 | 124 | 1.20 | 7.85 |
| July 18 | 29 | 105 | 3.19 | 11.54 | 33 | 81 | 4.93 | 12.09 | 62 | 186 | 3.92 | 11.77 |
| July 19 | 78 | 183 | 8.57 | 20.11 | 58 | 139 | 8.66 | 20.75 | 136 | 322 | 8.61 | 20.38 |
| July 20 | 16 | 199 | 1.76 | 21.87 | 12 | 151 | 1.79 | 22.54 | 28 | 350 | 1.77 | 22.15 |
| July 21 | 5 | 204 | 0.55 | 22.42 | 8 | 159 | 1.19 | 23.73 | 13 | 363 | 0.82 | 22.97 |
| July 22 | 48 | 252 | 5.27 | 27.69 | 38 | 197 | 5.67 | 29.40 | 86 | 449 | 5.44 | 28.42 |
| July 23 | 15 | 267 | 1.65 | 29.34 | 20 | 217 | 2.99 | 32.39 | 35 | 484 | 2.22 | 30.63 |
| July 24 | 36 | 303 | 3.96 | 33.30 | 28 | 245 | 4.18 | 36.57 | 64 | 548 | 4.05 | 34.68 |
| July 25 | 23 | 326 | 2.53 | 35.82 | 19 | 264 | 2.84 | 39.40 | 42 | 590 | 2.66 | 37.34 |
| July 26 | 30 | 356 | 3.30 | 39.12 | 33 | 297 | 4.93 | 44.33 | 63 | 653 | 3.99 | 41.33 |
| July 27 | 49 | 405 | 5.38 | 44.51 | 44 | 341 | 6.57 | 50.90 | 93 | 746 | 5.89 | 47.22 |
| July 28 | 25 | 430 | 2.75 | 47.25 | 26 | 367 | 3.88 | 54.78 | 51 | 797 | 3.23 | 50.44 |
| July 29 | 26 | 456 | 2.86 | 50.11 | 28 | 395 | 4.18 | 58.96 | 54 | 851 | 3.42 | 53.86 |
| July 30 | 72 | 528 | 7.91 | 58.02 | 23 | 418 | 3.43 | 62.39 | 95 | 946 | 6.01 | 59.87 |
| July 31 | 57 | 585 | 6.26 | 64.29 | 44 | 462 | 6.57 | 68.96 | 101 | 1047 | 6.39 | 66.27 |
| Aug. 1 | 26 | 611 | 2.86 | 67.14 | 17 | 479 | 2.54 | 71.49 | 43 | 1090 | 2.72 | 68.99 |
| Aug. 2 | 2 | 613 | 0.22 | 67.36 | 11 | 490 | 1.64 | 73.13 | 13 | 1103 | 0.82 | 69.81 |
| Aug. 3 | 13 | 626 | 1.43 | 68.79 | 23 | 513 | 3.43 | 76.57 | 36 | 1139 | 2.28 | 72.09 |
| Aug. 4 | 70 | 696 | 7.69 | 76.48 | 18 | 531 | 2.69 | 79.25 | 88 | 1227 | 5.57 | 77.66 |
| Aug. 5 | 16 | 712 | 1.76 | 78.24 | 15 | 546 | 2.24 | 81.49 | 31 | 1258 | 1.96 | 79.62 |
| Aug. 6 | 44 | 756 | 4.84 | 83.08 | 27 | 573 | 4.03 | 85.52 | 71 | 1329 | 4.49 | 84.11 |
| Aug. 7 | 35 | 791 | 3.85 | 86.92 | 36 | 609 | 5.37 | 90.90 | 71 | 1400 | 4.49 | 88.61 |
| Aug. 8 | 14 | 805 | 1.54 | 88.46 | 19 | 628 | 2.84 | 93.73 | 33 | 1433 | 2.09 | 90.70 |
| Aug. 9 | 82 | 887 | 9.01 | 97.47 | 23 | 651 | 3.43 | 97.16 | 105 | 1538 | 6.65 | 97.34 |
| Aug. 10 | 9 | 896 | 0.99 | 98.46 | 6 | 657 | 0.90 | 98.06 | 15 | 1553 | 0.95 | 98.29 |
| Aug. 11 | 4 | 900 | 0.44 | 98.90 | 4 | 661 | 0.60 | 98.66 | 8 | 1561 | 0.51 | 98.80 |
| Aug. 12 | 0 | 900 | 0.00 | 98.90 | 2 | 663 | 0.30 | 98.96 | 2 | 1563 | 0.13 | 98.92 |
| Aug. 13 | 0 | 900 | 0.00 | 98.90 | 3 | 666 | 0.45 | 99.40 | 3 | 1566 | 0.19 | 99.11 |
| Aug. 14 | 0 | 900 | 0.00 | 98.90 | 3 | 669 | 0.45 | 99.85 | 3 | 1569 | 0.19 | 99.30 |
| Aug. 15 | 0 | 900 | 0.00 | 98.90 | 0 | 669 | 0.00 | 99.85 | 0 | 1569 | 0.00 | 99.30 |
| Aug. 16 | 0 | 900 | 0.00 | 98.90 | 0 | 669 | 0.00 | 99.85 | 0 | 1569 | 0.00 | 99.30 |
| Aug. 17 | 10 | 910 | 1.10 | 100.00 | 1 | 670 | 0.15 | 100.00 | 11 | 1580 | 0.70 | 100.00 |
| Aug. 18 | 0 | 910 | 0.00 | 100.00 | 0 | 670 | 0.00 | 100.00 | 0 | 1580 | 0.00 | 100.00 |

Mean day of Migration = July 29

Variance = 62.4 days²

Mean day of Migration = July 28

Variance = 56.7 days²

Mean day of Migration = July 28

Variance = 60.2 days²

Appendix Table 78. Daily and cumulative chum salmon counts from Chilkoot River weir, 1983.

| Date | Daily Count | Cumulative Count | Daily Percent of Total | Cumulative Percent |
|----------|-------------|------------------|------------------------|--------------------|
| Aug. 6 | 2 | 2 | 0.41 | 0.41 |
| Aug. 7 | 1 | 3 | 0.21 | 0.62 |
| Aug. 8 | 0 | 3 | 0.00 | 0.62 |
| Aug. 9 | 0 | 3 | 0.00 | 0.62 |
| Aug. 10 | 0 | 3 | 0.00 | 0.62 |
| Aug. 11 | 0 | 3 | 0.00 | 0.62 |
| Aug. 12 | 1 | 4 | 0.21 | 0.82 |
| Aug. 13 | 0 | 4 | 0.00 | 0.82 |
| Aug. 14 | 0 | 4 | 0.00 | 0.82 |
| Aug. 15 | 1 | 5 | 0.21 | 1.03 |
| Aug. 16 | 0 | 5 | 0.00 | 1.03 |
| Aug. 17 | 0 | 5 | 0.00 | 1.03 |
| Aug. 18 | 1 | 6 | 0.21 | 1.23 |
| Aug. 19 | 0 | 6 | 0.00 | 1.23 |
| Aug. 20 | 0 | 6 | 0.00 | 1.23 |
| Aug. 21 | 2 | 8 | 0.41 | 1.64 |
| Aug. 22 | 3 | 11 | 0.62 | 2.26 |
| Aug. 23 | 4 | 15 | 0.82 | 3.08 |
| Aug. 24 | 5 | 20 | 1.03 | 4.11 |
| Aug. 25 | 5 | 25 | 1.03 | 5.13 |
| Aug. 26 | 2 | 27 | 0.41 | 5.54 |
| Aug. 27 | 3 | 30 | 0.62 | 6.16 |
| Aug. 28 | 3 | 33 | 0.62 | 6.78 |
| Aug. 29 | 4 | 37 | 0.82 | 7.60 |
| Aug. 30 | 7 | 44 | 1.44 | 9.03 |
| Aug. 31 | 7 | 51 | 1.44 | 10.47 |
| Sept. 1 | 6 | 57 | 1.23 | 11.70 |
| Sept. 2 | 5 | 62 | 1.03 | 12.73 |
| Sept. 3 | 7 | 69 | 1.44 | 14.17 |
| Sept. 4 | 6 | 75 | 1.23 | 15.40 |
| Sept. 5 | 7 | 82 | 1.44 | 16.84 |
| Sept. 6 | 7 | 89 | 1.44 | 18.28 |
| Sept. 7 | 12 | 101 | 2.46 | 20.74 |
| Sept. 8 | 9 | 110 | 1.85 | 22.59 |
| Sept. 9 | 6 | 116 | 1.23 | 23.82 |
| Sept. 10 | 18 | 134 | 3.70 | 27.52 |
| Sept. 11 | 0 | 134 | 0.00 | 27.52 |
| Sept. 12 | 4 | 138 | 0.82 | 28.34 |
| Sept. 13 | 13 | 151 | 2.67 | 31.01 |
| Sept. 14 | 5 | 156 | 1.03 | 32.03 |
| Sept. 15 | 2 | 158 | 0.41 | 32.44 |
| Sept. 16 | 0 | 158 | 0.00 | 32.44 |
| Sept. 17 | 7 | 165 | 1.44 | 33.88 |
| Sept. 18 | 12 | 177 | 2.46 | 36.34 |
| Sept. 19 | 11 | 188 | 2.26 | 38.60 |
| Sept. 20 | 8 | 196 | 1.64 | 40.25 |

-Continued-

Appendix Table 78. Daily and cumulative chum salmon counts from Chilkoot River weir, 1983 (continued).

| Date | Daily Count | Cumulative Count | Daily Percent of Total | Cumulative Percent |
|----------|-------------|------------------|------------------------|--------------------|
| Sept. 21 | 9 | 205 | 1.85 | 42.09 |
| Sept. 22 | 6 | 211 | 1.23 | 43.33 |
| Sept. 23 | 10 | 221 | 2.05 | 45.38 |
| Sept. 24 | 10 | 231 | 2.05 | 47.43 |
| Sept. 25 | 3 | 234 | 0.62 | 48.05 |
| Sept. 26 | 17 | 251 | 3.49 | 51.54 |
| Sept. 27 | 8 | 259 | 1.64 | 53.18 |
| Sept. 28 | 12 | 271 | 2.46 | 55.65 |
| Sept. 29 | 14 | 285 | 2.87 | 58.52 |
| Sept. 30 | 10 | 295 | 2.05 | 60.57 |
| OCT. 1 | 9 | 304 | 1.85 | 62.42 |
| OCT. 2 | 2 | 306 | 0.41 | 62.83 |
| OCT. 3 | 9 | 315 | 1.85 | 64.68 |
| OCT. 4 | 20 | 335 | 4.11 | 68.79 |
| OCT. 5 | 14 | 349 | 2.87 | 71.66 |
| OCT. 6 | 16 | 365 | 3.29 | 74.95 |
| OCT. 7 | 14 | 379 | 2.87 | 77.82 |
| OCT. 8 | 5 | 384 | 1.03 | 78.85 |
| OCT. 9 | 13 | 397 | 2.67 | 81.52 |
| OCT. 10 | 5 | 402 | 1.03 | 82.55 |
| OCT. 11 | 14 | 416 | 2.87 | 85.42 |
| OCT. 12 | 8 | 424 | 1.64 | 87.06 |
| OCT. 13 | 9 | 433 | 1.85 | 88.91 |
| OCT. 14 | 6 | 439 | 1.23 | 90.14 |
| OCT. 15 | 9 | 448 | 1.85 | 91.99 |
| OCT. 16 | 4 | 452 | 0.82 | 92.81 |
| OCT. 17 | 2 | 454 | 0.41 | 93.22 |
| OCT. 18 | 3 | 457 | 0.62 | 93.84 |
| OCT. 19 | 0 | 457 | 0.00 | 93.84 |
| OCT. 20 | 8 | 465 | 1.64 | 95.48 |
| OCT. 21 | 7 | 472 | 1.44 | 96.92 |
| OCT. 22 | 1 | 473 | 0.21 | 97.13 |
| OCT. 23 | 1 | 474 | 0.21 | 97.33 |
| OCT. 24 | 3 | 477 | 0.62 | 97.95 |
| OCT. 25 | 1 | 478 | 0.21 | 98.15 |
| OCT. 26 | 2 | 480 | 0.41 | 98.56 |
| OCT. 27 | 1 | 481 | 0.21 | 98.77 |
| OCT. 28 | 0 | 481 | 0.00 | 98.77 |
| OCT. 29 | 0 | 481 | 0.00 | 98.77 |
| OCT. 30 | 1 | 482 | 0.21 | 98.97 |
| OCT. 31 | 1 | 483 | 0.21 | 99.18 |
| NOV. 1 | 1 | 484 | 0.21 | 99.38 |
| NOV. 2 | 0 | 484 | 0.00 | 99.38 |
| NOV. 3 | 3 | 487 | 0.62 | 100.00 |

Mean day of migration = Sept. 24

Variance = 294.8 Day²

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